

SCANFLEX controller	1	SFX-6308	14
SCANFLEX controller for USB/LAN	1	BAC options	14
SFX II CUBE	1	Bus Access Cable (BAC) 9305-USB 2.0/S	14
SFX II WLAN1	1	Bus Access Cable (BAC) 9305-USB 2.0/H	14
SFX II CUBE Mounting kit	1	Bus Access Cable (BAC) 9305-Bluetooth	15
SFX II TIC01/LX	2	Bus Access Cable (BAC) 9305-LAN10/100	15
SFX II TIC020/LX	2	Bus Access Cable (BAC) 9305-LAN1G	15
SFX II TEM	2	Bus Access Cable (BAC) 9305-RS232	15
SFX II CUBE SPLITTER	2	Bus Access Cable (BAC) 9305-RS422/485	15
SFX II BLADE 4	3	Bus Access Cable (BAC) 9305-CAN/HS	16
SFX II BLADE 4 RMx3	3	Bus Access Cable (BAC) 9305-CAN/LS	16
SCANFLEX controller for PXI	4	Bus Access Cable (BAC) 9305-LIN	16
SFX/PXI 1149	4	FXT modules	16
SFX/PXI 1149/C2	4	CION Module/FXT48A	16
SFX/PXI 1149/C4	5	CION Module/FXT48AJ	17
SCANFLEX controller for PXI Express	5	CION-LX Module/FXT96	17
SFX/PXIe 1149	5	CION-LX Module/FXT192	17
SFX/PXIe 1149/C2	6	ChipVORX Module/FXT-X32/HSIO4	18
SFX/PXIe 1149/C4	6	ChipVORX Module/FXT-X90	18
SCANBOOSTER controller	6	Desktop SCANFLEX carrier	18
SCANBOOSTER/USB	6	SFX-Carrier 5	18
SCANFLEX for VPC (Virginia Panel Corporation) .	7	Solutions & systems	19
SFX-TAP6/VPC Adapter/ISO	7	Studio versions	19
SFX-TAP6/VPC Adapter/Relay	7	SCANBOOSTER/USB Designer Studio Base	19
SFX/VPC-TAP16/M1	7	SCANBOOSTER/USB Designer Studio Standard	19
SFX/VPC-AMC128L	7	SFX II Studio Base	19
SFX/VPC-AMC128H	8	SFX II Studio Standard	19
Options for SCANFLEX TAP transceiver	8	SFX II Studio Comfort	20
TIC Extension Module (TEM)	8	JULIET	20
TEM Splitter	8	JULIET Series 3	20
TIC Extension Module/Isolated (TEM/ISO)	8	JULIET accessories	21
TAP Interface Card (TIC) Type 02/SR	9	JULIET/Fixture Set	21
TAP Interface Card (TIC) Type 03/SR	9	JULIET/Barcode Reader Type A	21
TAP Interface Card (TIC) Type 02/PMU	9	JULIET/Barcode Reader Type B	22
TAP Interface Card (TIC) Type 022/SR	9	JULIET/Selftest Fixture	22
TAP Interface Card (TIC) Type 122/SR	10	JULIET/Universal Fixture	22
TAP Interface Card (TIC) Type 122/XDP60	10	JULIET/Toolset	22
TIC Self Test Board	10	JULIET/Cover Lift	23
TIC/FXT Self Test Board	10	JULIET/Cover Lock	23
TAP Interface Card (TIC) Type 020	11	RAPIDO	23
TAP Isolator	11	RPS910-S16	23
SCANFLEX TAP for gang testing/programming.	11	RAPIDO/S16PLUS	24
SFX-TAP16/G-RM	11	RAPIDO/Barcode Reader Type A	24
SFX-TAP16/G-RM-FXT	11	RAPIDO SFT	24
SFX-5296LX	12	FID (TOP oder BOTTOM)	24
SFX-5296	12	Integration packages	25
SFX-5350	12	Acculogic	25
SFX-5212	12	ATE Integration for Acculogic Flying Probe	25
SFX-5364	13	Cobham	25
SFX-9305	13	ATE Integration for Cobham MDA/ICT/FKT	25
SFX-9305/R	13		
SFX-5704	13		
SFX-6216	14		

digitaltest	25	BG-Access Kit/5	33
ATE Integration for digitaltest Condor Flying Probe	25	BG-Access Kit/10	33
ATE Integration for digitaltest Entry/Vacuum/Cable	25	BG-Nail Holders	33
Dr. Eschke	26	Demo boards	33
ATE Integration for Dr. Eschke	26	Boundary Scan Coach / EZScan	33
Eiger Design	26	GoJTAG Demo Board	34
ATE Integration for Eiger Design	26	ESA Coach	34
Keysight	26	Integra V1	34
ATE Integration for Keysight 3070 ICT	26	Software	35
LXinstruments	26	CASCON GALAXY-DS Base Edition	35
ATE Integration for LXinstruments FCT	26	CASCON GALAXY-DS Standard Edition	35
Polar Instruments	27	CASCON GALAXY-DS Classic Edition	36
ATE Integration for Polar Instruments	27	CASCON GALAXY-DS Advanced Edition	36
Reinhardt	27	CASCON GALAXY-TS Run Time Edition	37
ATE Integration for Reinhardt	27	CASCON GALAXY-TS Failure Diagnostic Edition	37
Rohde & Schwarz	27	CASCON GALAXY-TS Failure Diagnostic & Repair	38
ATE Integration for Rohde & Schwarz TSVP	27		
Seica	27		
ATE Integration for Seica Flying Probe	27		
ATE Integration for Seica ICT	28		
SPEA	28		
ATE Integration for SPEA ICT	30		
ATE Integration for SPEA Flying Probe	28		
Takaya	28		
ATE Integration for Takaya APT - Flying Probe	28		
Teradyne	29		
ATE Integration for Teradyne Spectrum ICT	29		
ATE Integration for Teradyne Teststation ICT	29		
TEST-OK	29		
ATE Integration for TEST-OK	29		
TRI	29		
ATE Integration for TRI TR5001	29		
Demo kit	30		
SYSTEM CASCON Demo Kit	30		
Cable tester	30		
ChipVORX Module/GCaT	30		
Accessories	30		
VPC modules	30		
SFX/VPC-MPP/M1	30		
SFX/VPC-TPC128	30		
SFX/VPC-PWR16-M1	31		
CION ICs & accessories	31		
CION	31		
CION-LX	31		
Boundary Scan Probe	32		
Board grabber & accessories	32		
SFX/Board Grabber-L	32		
SFX/Board Grabber-XL	32		
SFX/Board Grabber-XXL	32		
BG-Nail Probe/RA	33		

SCANFLEX controller

SCANFLEX controller for USB/LAN

SFX II CUBE



Multifunctional JTAG/Boundary Scan Controller for GBit LAN und USB 3.0

- maximum TCK frequency: 20 MHz / 50 MHz / 100 MHz
- Scan Data Buffer / SPACE™ III Architecture
- ADYCS™ III (Compensation of propagation delays)
- HYSCAN™ (Hybrid Scan, enables the definition of a virtual digital pin electronics)
- FASTSCALE™ (change in the speed level using software, e.g. change to C-controller)
- 2 SFX / LS interfaces (for expansion with SFX carriers and SXF-I/O modules)
- 8 JTAG / TAP slots (SFX II TIC or TEM module must be ordered separately)
- 64 MPP (Multi Purpose Port), mixed-signal I/Os to support 8 TAPs
 - *in-built SFX-I/O module with VarioCore support*
 - *each channel can be configured independently (input, output, bidirectional)*
 - *I/O voltage can be programmed in 8 groups, each with 8 channels (0.9-3.6 V)*
 - *driver capability of the channels: +/- 24 mA*
 - *use as generic I/Os, PIP replacement and as control lines in the AFPG (FLASH)*
 - *each signal has a 220 in-line resistor*
- 1 SFX-I/O slot (for expansion with SFX-I/O modules)

Configuration overview · SCANFLEX II CUBE

	SFX II CUBE-A	SFX II CUBE-B	SFX II CUBE-C
item number	SCO2-010	SCO2-011	SCO2-012
max. TCK frequency	20 MHz	50 MHz	100 MHz
data processing	normal - Scan Data Buffer	fast - SPACE™ III architecture (up to 20 times faster)	fast - SPACE™ III architecture (up to 20 times faster)
upgrade	FASTSCALE™ (upgrade to B- or C-controller)	FASTSCALE™ (upgrade to C-controller)	-

Item no. SCO2-xxx

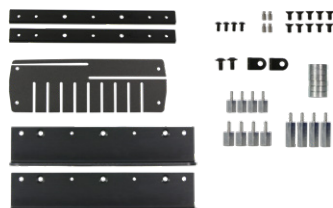
SFX II WLAN1



- Wireless LAN (WLAN) 150 Mbit/s USB 2.0 Adapter with swivel-mounted and detachable antenna for connection to SFX II controller
- compatible with the IEEE 802.11b/g/n standard
- WPA, WPA2 encryption
- 2,4 GHz frequency band

Item no. SCO2-WLAN1

SFX II CUBE Mounting Kit



Installation kit for ATE integration of an SFX II CUBE. With threaded feet for direct installation or for fitting with the magnetic feet included. Strain relief for all cable connections.

Item no. STT2-400

SFX II TIC01 / LX



TAP Interface Card as a plug-in module for SFX II Controller

- 1 JTAG port / TAP mit single-ended interface
- programmable input (0.0-3.0 V) and output voltage (0.9-3.6 V)
- programmable input and output impedance
- programmable drive strength
- relay-switched 5 V output signal

Item no. STT2-110

SFX II TIC020 / LX



TAP Interface Card as a plug-in module for SFX II Controller

- 1 JTAG port / TAP with single-ended interface
- programmable input (0.0-3.0 V) and output voltage (0.9-3.6 V)
- programmable input and output impedance
- programmable drive strength
- relay-switched 5 V output signal
- with multi-bus interface for extended VarioTAP support

Item no. STT2-310

SFX II TEM

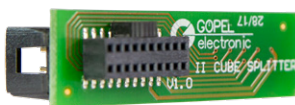


TIC extension module as a plug-in module for SFX II Controller

- with differential interface for connecting all external TIC modules

Item no. STT2-130

SFX II CUBE SPLITTER



Adapter from a 20-pin high-density socket to two 10-pin low-density plug connectors

- compatible with SFX II TEM, SFX II TEM/ISO and SFX II TIC020/LX of the SFX II CUBE
- for IDC socket assemblies or wire-wrap connections

Item no. STT2-131

SFX II BLADE 4



SCANFLEX II JTAG/Boundary Scan Controller for GBit LAN and USB 3.0 for average power (without pre-installed TIC / TEM modules)

- maximum TCK frequency: 20 MHz / 50 MHz / 100 MHz
- Scan Data Buffer / SPACE™ III Architecture
- ADYCS™ III (Compensation of propagation delays)
- HYSCAN™ (Hybrid Scan, enables the definition of a virtual digital pin electronics)
- FASTSCALE™ (change in the speed level using software, e.g. change to C-controller)
- 2 SFX / LS interfaces (for expansion with SFX carriers and SXF-I/O modules)
- 4 JTAG / TAP slots (SFX II TIC or TEM modules)
- 64 MPP (Multi Purpose Port), mixed-signal I/Os to support 4 TAPs:
 - *in-built SFX-I/O module with VarioCore support*
 - *each channel can be configured independently (input, output, bidirectional)*
 - *I/O voltage can be programmed in 8 groups, each with 8 channels (0.9-3.6 V)*
 - *driver capability of the channels +/- 24 mA*
 - *use as generic I/Os, PIP replacement and as control lines in the AFPG (FLASH)*
 - *each signal has a 220 in-line resistor*

Configuration overview · SCANFLEX II BLADE 4

	SFX II BLADE 4-A	SFX II BLADE 4-B	SFX II BLADE 4-C
item number	SCO2-020	SCO2-021	SCO2-022
max. TCK frequency	20 MHz	50 MHz	100 MHz
data processing	normal - Scan Data Buffer	fast - SPACE™ III architecture (up to 20 times faster)	fast - SPACE™ III architecture (up to 20 times faster)
upgrade	FASTSCALE™ (upgrade to B- or C-controller)	FASTSCALE™ (upgrade to C-controller)	-

Item no. SCO2-02x

SFX II BLADE 4 RMx3



Three independent SCANFLEX II JTAG/Boundary Scan Controllers for GBit LAN and USB 3.0 for average power for gang applications in a 19" housing (1 HU)

- maximum TCK frequency: 20 MHz / 50 MHz / 100 MHz
- Scan Data Buffer / SPACE™ III Architecture
- ADYCS™ III (Compensation of propagation delays)
- HYSCAN™ (Hybrid Scan, enables the definition of a virtual digital pin electronics)
- FASTSCALE™ (change in the speed level using software, e.g. change to C-controller)
- 3x2 SFX / LS interfaces (for expansion with SFX carriers and SXF-I/O modules)
- 3x4 JTAG / TAP slots (SFX II TIC or TEM modules must be ordered separately)
- 3x64 MPP (Multi Purpose Port), mixed-signal I/Os to support 4 TAPs:
 - *in-built SFX-I/O module with VarioCore support*
 - *each channel can be configured independently (input, output, bidirectional)*
 - *I/O voltage can be programmed in 8 groups, each with 8 channels (0.9-3.6 V)*
 - *driver capability of the channels +/- 24 mA*
 - *use as generic I/Os, PIP replacement and as control lines in the AFPG (FLASH)*
 - *each signal has a 220 in-line resistor*

Configuration overview · SCANFLEX II BLADE 4 RMx3

	SFX II BLADE 4 RMx3-A	SFX II BLADE 4 RMx3-B	SFX II BLADE 4 RMx3-C
item number	SCO2-130	SCO2-131	SCO2-132
number of controllers	3 (also available with 1 or 2)	3 (also available with 1 or 2)	3 (also available with 1 or 2)
max. TCK frequency	20 MHz	50 MHz	100 MHz
data processing	normal - Scan Data Buffer	fast - SPACE™ III architecture (up to 20 times faster)	fast - SPACE™ III architecture (up to 20 times faster)
upgrade	FASTSCALE™ (upgrade to B- or C-controller)	FASTSCALE™ (upgrade to C-controller)	-

Item no. SCO2-13x

SCANFLEX controller for PXI

SFX / PXI 1149



SCANFLEX JTAG/Boundary Scan Controller for PXI

- 1 Slot / 3U PXI module
- maximum TCK frequency: 20 MHz / 50 MHz / 80 MHz
- Scan Data Buffer / SPACE™ II Architecture
- ADYCS™ II (Compensation of propagation delays)
- HYSCAN™ (Hybrid Scan, enables the definition of a virtual digital pin electronics)
- FASTSCALE™ (change in the speed level using software, e.g. change to C-controller)
- 1 SFX interface (port for all SCANFLEX TAP transceivers)
- 2 SFX / LS interfaces (for expansion with SFX carriers and SXF-I/O modules)

Configuration overview · SCANFLEX controller for PXI

	SFX PXI-A	SFX PXI-B	SFX PXI-C
item number	SCO-020	SCO-021	SCO-022
max. TCK frequency	20 MHz	50 MHz	80 MHz
data processing	normal - Scan Data Buffer	fast - SPACE™ II architecture (up to 10 times faster)	fast - SPACE™ II architecture (up to 10 times faster)
upgrade	FASTSCALE™ (upgrade to B- or C-controller)	FASTSCALE™ (upgrade to C-controller)	-

Item no. SCO-02x

SFX / PXI 1149 / C2



SCANFLEX JTAG/Boundary Scan Controller for PXI

- 1 Slot / 3U PXI module with integrated TAP transceiver
- maximum TCK frequency: 20 MHz / 50 MHz / 80 MHz
- Scan Data Buffer / SPACE™ II Architecture
- ADYCS™ II (Compensation of propagation delays)
- HYSCAN™ (Hybrid Scan, enables the definition of a virtual digital pin electronics)
- FASTSCALE™ (change in the speed level using software, e.g. change to C-controller)
- 1 SFX / LS interface (for expansion with SFX carriers and SXF-I/O modules)
- 2 JTAG ports / TAPs with single-ended interface (built-in) and 8 TDIs (for gang applications)
- programmable input (0.0-3.0 V) and output voltage (1.8-4.5 V) for each TAP
- programmable input and output impedance for each TAP
- relay-switched 5 V output signal for each TAP

- 32 bit PIP (Parallel Interface Port), the I/O voltage for the two 16-bit groups is programmable (1.8-4.5 V)
- 2 analogue I/O channels (10 bit, AD-DA)
- 3 digital I/O channels (3.3 V; max. 5.5 V VIN)
- ConPAC PXI / Cx-1 paddle card included (68-pin SCSI-3 plug connector)

Item no. SCO-12x

SFX / PXI 1149 / C4



SCANFLEX JTAG/Boundary Scan Controller for PXI

- 1 Slot / 3U PXI module with integrated TAP transceiver
- maximum TCK frequency: 20 MHz / 50 MHz / 80 MHz
- Scan Data Buffer / SPACE™ II Architecture
- ADYCS™ II (Compensation of propagation delays)
- HYSCAN™ (Hybrid Scan, enables the definition of a virtual digital pin electronics)
- FASTSCALE™ (change in the speed level using software, e.g. change to C-controller)
- 1 SFX / LS interface (for expansion with SFX carriers and SXF-I/O modules)
- 4 JTAG ports / TAPs with single-ended interface (built-in)
- programmable input (0.0-3.0 V) and output voltage (1.8-4.5 V) for each TAP
- programmable input and output impedance for each TAP
- relay-switched 5 V output signal for each TAP
- 32 bit PIP (Parallel Interface Port), the I/O voltage for the two 16-bit groups is programmable (1.8-4.5 V)
- 2 analogue I/O channels (10 bit, AD-DA)
- 3 digital I/O channels (3.3 V; max. 5.5 V VIN)
- ConPAC PXI / Cx-1 paddle card included (68-pin SCSI-3 plug connector)

Item no. SCO-22x

SCANFLEX controller for PXI Express

SFX / PXIe 1149



SCANFLEX JTAG/Boundary Scan Controller for PXI Express

- 1 Slot / 3U PXI module
- maximum TCK frequency: 20 MHz / 50 MHz / 80 MHz
- Scan Data Buffer / SPACE™ II Architecture
- ADYCS™ II (Compensation of propagation delays)
- HYSCAN™ (Hybrid Scan, enables the definition of a virtual digital pin electronics)
- FASTSCALE™ (change in the speed level using software, e.g. change to C-controller)
- 1 SFX interface (port for all SCANFLEX TAP transceivers)
- 2 SFX / LS interfaces (for expansion with SFX carriers and SXF-I/O modules)

Configuration overview · SCANFLEX controller for PXI Express

	SFX PXIe-A	SFX PXIe-B	SFX PXIe-C
item number	SCO-050	SCO-051	SCO-052
max. TCK frequency	20 MHz	50 MHz	80 MHz
data processing	normal - Scan Data Buffer	fast - SPACE™ II architecture (up to 10 times faster)	fast - SPACE™ II architecture (up to 10 times faster)
upgrade	FASTSCALE™ (upgrade to B- or C-controller)	FASTSCALE™ (upgrade to C-controller)	-

Item no. SCO-05x

SFX / PXle 1149 / C2



SCANFLEX JTAG/Boundary Scan Controller for PXI Express

- 1 Slot / 3U PXI module with integrated TAP transceiver
- maximum TCK frequency: 20 MHz / 50 MHz / 80 MHz
- Scan Data Buffer / SPACE™ II Architecture
- ADYCS™ II (Compensation of propagation delays)
- HYSCAN™ (Hybrid Scan, enables the definition of a virtual digital pin electronics)
- FASTSCALE™ (change in the speed level using software, e.g. change to C-controller)
- 1 SFX / LS interface (for expansion with SFX carriers and SXF-I/O modules)
- 4 JTAG ports / TAPs with differential interface (TEM, built-in)
- an external differential TIC module is required for each TAP used (not included)
- 32 bit PIP (Parallel Interface Port), the I/O voltage for the two 16-bit groups is programmable (1.8-4.5 V)
- 2 analogue I/O channels (10 bit, AD-DA)
- 3 digital I/O channels (3.3 V; max. 5.5 V VIN)
- ConPAC interface
- ConPAC PXI / Cx-3 paddle card included (4 x 40-pin IDC plug connector)

Item no. SCO-13x

SFX / PXle 1149 / C4



SCANFLEX JTAG/Boundary Scan Controller for PXI Express

- 1 Slot / 3U PXI module with integrated TAP transceiver
- maximum TCK frequency: 20 MHz / 50 MHz / 80 MHz
- Scan Data Buffer / SPACE™ II Architecture
- ADYCS™ II (Compensation of propagation delays)
- HYSCAN™ (Hybrid Scan, enables the definition of a virtual digital pin electronics)
- FASTSCALE™ (change in the speed level using software, e.g. change to C-controller)
- 1 SFX / LS interface (for expansion with SFX carriers and SXF-I/O modules)
- 4 JTAG ports / TAPs with differential interface (TEM, built-in)
- an external differential TIC module is required for each TAP used (not included)
- 32 bit PIP (Parallel Interface Port), the I/O voltage for the two 16-bit groups is programmable (1.8-4.5 V)
- 2 analogue I/O channels (10 bit, AD-DA)
- 3 digital I/O channels (3.3 V; max. 5.5 V VIN)
- ConPAC interface
- ConPAC PXI / Cx-3 paddle card included (4 x 40-pin IDC plug connector)

Item no. SCO-23x

SCANBOOSTER

SCANBOOSTER / USB



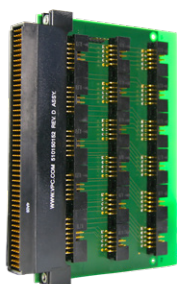
Low Cost JTAG/Boundary Scan Controller for USB 2.0

- 2 JTAG ports / TAPs with single-ended interface (TIC01)
- programmable input (0.0-3.0 V) and output voltage (1.8-4.5 V) for each TAP
- programmable input and output impedance for each TAP
- relay-switched 5 V output signal for each TAP
- maximum TCK frequency: 16 MHz
- 32 bit PIP (Parallel Interface Port), the I/O voltage for the two 16-bit groups is programmable (1.8-4.5 V)
- 2 analogue I/O channels (10 bit, AD-DA)
- 3 digital I/O channels (3.3 V; max. 5.5 V VIN)
- Power supply via USB port

Item no. 111-200

SCANFLEX for VPC (Virginia Panel Corporation)

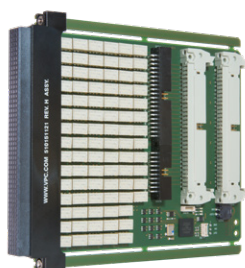
SFX-TAP6 / VPC Adapter / ISO



- Mass Interconnect Interface for up to 6 TAPs and PIP / MPP signals (SFX-TAP6 / FXT (/ ISO) or SCANFLEX II CUBE with 6 x SFX II TEM (/ ISO))
- based on the 192-pin receiver from Virginia Panel (P / N 510150152)
- support for 2 x 6 x 10-pin and 4 x 12-pin

Item no. STT-500

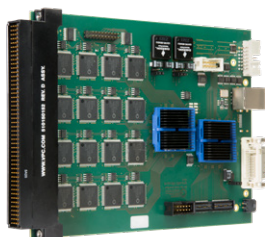
SFX-TAP6 / VPC Adapter / Relay



- Mass Interconnect Interface for up to 6 TAPs and PIP / MPP signals (SFX-TAP6 / FXT (/ ISO) or SCANFLEX II CUBE with 6 x SFX II TEM (/ ISO))
- based on the 192-pin receiver from Virginia Panel (P / N 510150152)
- including support for 2 x 60-pin and 1 x 40-pin

Item no. STT-501

SFX / VPC-TAP16 / M1



Fixture SCANFLEX TAP transceiver for gang applications

- also available as FXT variant (with differential transmission)
- Mass Interconnect Interface for 8 x 2 TAPs (eight TAPs with two TDIs for each TAP)
- 16 built-in TIC020 with multi-bus interface for extended VarioTAP support
- programmable input (0.0-3.0 V) and output voltage (1.8-4.5 V) for each TAP
- programmable input and output impedance for each TAP
- relay-switched 5 V output signal for each TAP when using the SFX / VPC-MPP / M1 card
- 1 SFX / LS interface (for expansion with SFX carriers and SXF-I/O modules)

*Note: more VPC modules on page 30

Item no. RPD-700

SFX / VPC-AMC128L



SCANFLEX Analog Measurement Card

- 128 independent measuring channels (16 simultaneously)
- VPC interface with 192-pin receiver from Virginia Panel (P/N 510150152)
- 3 measuring ranges: +/-2,5 V, +/-5 V and +/-10 V
- for each of the 128 measuring channels independent, programmable voltage ranges in 3 steps
- control via Gigabit LAN and web interface
- no driver installation required

*Note: more VPC modules on page 30

Item no. RPD-760

SFX / VPC-AMC128H



SCANFLEX Analog Measurement Card

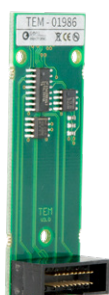
- 128 independent measuring channels (16 simultaneously)
- VPC interface with 192-pin receiver from Virginia Panel (P/N 510150152)
- 3 measuring ranges: $\pm 2,5$ V, ± 5 V and ± 10 V
- for each of the 128 measuring channels independent, programmable voltage ranges in 3 steps
- control via Gigabit LAN and web interface
- no driver installation required

*Note: more VPC modules on page 30

Item no. RPD-761

Options for SCANFLEX TAP transceiver

TIC Extension Module (TEM)

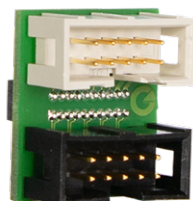


TIC extension module as a plug-in module for Desktop SCANFLEX TAP transceiver 2 / 4 / 6 / 7 / 8S and SCANBOOSTER

- with differential interface for connecting all external TIC modules
- TEM (TIC) cable 0.5 m included

Item no. STT-130

TEM Splitter



Adapter from a 20-pin high-density socket to two 10-pin low-density plug connectors

- plug-on module on SCANFLEX TEM or TEM / ISO
- for IDC socket assemblies or wire-wrap connections

Item no. STT-131

TIC Extension Module / Isolated (TEM / ISO)

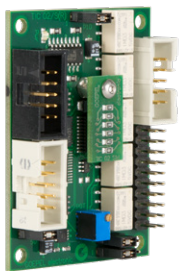


TIC extension module / isolated as a plug-in module for Desktop SCANFLEX TAP transceiver 2 / 4 / 6 / 7 / 8S

- with differential and isolated interface for connecting all external TIC modules
- maximum TCK frequency: 65 MHz
- TEM (TIC) cable 0.5 m included

Item no. STT-132

TAP Interface Card (TIC) Type 02 / SR



TAP Interface Card as a fixture assembly module for connection to replaceable or built-in TEM or TEM/ISO

- suitable for all SCANFLEX TAP transceivers, SCANBOOSTER and SCANFLEX II Controller with differential interface (FXT)
- 1 JTAG port / TAP with single-ended interface
- adjustable input (0.0-3.3V, preset to 1.0V or external) and output voltage (1.65-3.6V, preset to 3.3V or external)
- relay-switched 5 V output signal
- cut-off relay for TAP and AUX signals

Item no. STT-121

TAP Interface Card (TIC) Type 03 / SR



TAP Interface Card as a fixture assembly module in a climatic chamber for connection to replaceable or built-in TEM or TEM/ISO

- suitable for all SCANFLEX TAP transceivers, SCANBOOSTER and SCANFLEX II Controller with differential interface (FXT)
- 1 JTAG port / TAP with single-ended interface
- adjustable input (0.0-3.3 V, preset to 1.0 V or external) and output voltage (1.65-3.6 V, preset to 3.3 V or external)
- relay-switched 5 V output signal
- cut-off relay for TAP and AUX signals
- temperature range from -40 °C to 80 °C

Item no. STT-123

TAP Interface Card (TIC) Type 02 / PMU

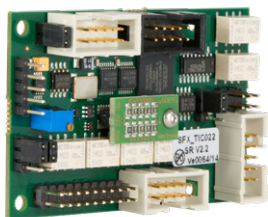


TAP Interface Card as a fixture assembly module for connection to replaceable or built-in TEM or TEM / ISO

- suitable for all SCANFLEX TAP transceivers and SCANFLEX II Controller with differential interface (FXT)
- 1 JTAG port / TAP with single-ended interface
- adjustable input (0.0-3.3 V, preset to 1.0 V or external) and output voltage (1.65-3.6 V, preset to 3.3 V or external)
- relay-switched 5 V output signal
- cut-off relay for TAP and AUX signals
- additionally built-in precision-measuring unit (PMU) for unpowered open / short tests
- can be used with PXI or SCANFLEX I/O modules

Item no. STT-124

TAP Interface Card (TIC) Type 022 / SR



TAP Interface Card as a fixture assembly module for connection to replaceable or built-in TEM or TEM / ISO

- suitable for all SCANFLEX TAP transceivers and SCANFLEX II Controller with differential interface (FXT)
- 1 JTAG port / TAP with single-ended interface
- adjustable input (0.0-3.3 V, preset to 1.0 V or external) and output voltage (1.65-3.6 V, preset to 3.3 V or external)
- relay-switched 5 V output signal
- cut-off relay for TAP and AUX signals
- with multi-bus interface for extended VarioTAP support

Item no. STT-126

TAP Interface Card (TIC) Type 122 / SR



TAP Interface Card as a fixture assembly module for connection to replaceable or built-in TEM or TEM / ISO

- suitable for all SCANFLEX TAP transceivers und SCANFLEX II Controller with differential interface (FXT)
- 1 JTAG port / TAP with single-ended interface
- adjustable input (0.0-3.3 V, preset to VOUT / 2 or external) and output voltage (0.9-3.6 V, fixed at 3.3 V or external, present to external)
- relay-switched 5 V output signal
- cut-off relay for TAP and AUX signals
- with multi-bus interface for extended VarioTAP support
- support for Intel architecture

Item no. STT-134

TAP Interface Card (TIC) Type 122 / XDP60



Special impedance-controlled connection cable for TIC122 / S(R) for connection to the Intel XDP60 Debug plug connector

Item no. STT-135

TIC Self Test Board



Self-testing module for JTAG / TAP signals

- Plug-in card for standard 10-pin TAP connector of the TIC modules

Item no. STT-115

TIC / FXT Self Test Board



Self-testing module for JTAG / TAP signals

- for fixture applications
- 7 cables with female connectors, with terminals for contacting the transceiver contacts or ICT pins included

Item no. STT-116

TAP Interface Card (TIC) Type 020



TAP Interface Card as a plug-in module for Desktop SCANFLEX TAP transceiver 2 / 4 / 6 / 7 / 8

- 1 JTAG port / TAP with single-ended interface
- programmable input (0.0-3.0 V) and output voltage (1.8-4.5 V)
- programmable input and output impedance
- relay-switched 5 V output signal
- TIC cable 0.5 m included
- with multi-bus interface for extended VarioTAP support

Item no. STT-310

TAP Isolator



External Desktop Box for isolating TAP signals between primary interface and target

- selectable output voltage (2.5 V, 3.3 V or adjustable 1.65-4.5 V)
- maximum TCK frequency: 65 MHz
- TAP cable included
- external 5 V power supply required

Item no. STT-910

SCANFLEX TAP transceiver for gang testing and programming

SFX-TAP16 / G-RM



SCANFLEX TAP transceiver for gang applications in a 19" housing (1U)

- 8 x 2 TAPs (eight TAPs with two TDIs for each TAP)
- 16 built-in TIC020 with multi-bus interface for extended VarioTAP support
- programmable input (0.0-3.0 V) and output voltage (1.8-4.5 V)

Item no. STT-700

SFX-TAP16 / G-RM-FXT



SCANFLEX TAP transceiver for gang applications in a 19" housing (1U)

- 8 x 2 differential TAPs (eight TAPs with two TDIs for each TAP)
- 16 built-in TEM modules
- an external differential TIC module is required for each TAP used (not included)

Item no. STT-710

SFX-5296LX



SCANFLEX digital I/O module (mixed signal)

- 96 single-ended (SE) test channels in 3 x 32-bit groups; I/O voltage per group: 0.9-3.6 V; driver capability of the channels: +/- 24 mA
- I/O voltage is programmable for any group
- each channel can be configured independently (input, output, bi-directional) and supports the unstress function
- extended test resources at the I/O pins (SE):
 - 12-bit ADC + 1k RAM (signal recorder)
 - 10-bit DAC + 1k RAM (arbitrary waveform generator)
 - event detector
 - frequency meter
 - connectable pull-up and pull-down resistors (each 10k)
 - setting for the drive strength

Item no. SMO-001

SFX-5296



SCANFLEX digital I/O module

- 96 single-ended (SE) test channels in 3 x 32-bit groups; I/O voltage per group: 0.9-3.6 V; driver capability of the channels: +/- 24 mA
- each channel can be configured independently (input, output, bi-directional and tri-state)
- I/O voltage is programmable for any group

Item no. SMO-000

SFX-5350



SCANFLEX digital I/O module

- 50 differential test channels
- standard interface: LVDS (can be changed by a module update)
- driver capability of the channels is dependent on the I/O standard
- each channel can be configured independently (input, output, bi-directional and tri-state)

Item no. SMO-005

SFX-5212



SCANFLEX digital I/O module

- 12 single-ended (SE) test channels in 1 x 12-bit groups; I/O voltage per group: 12 / 24 V internal or 8-30 V external; driver capability of the channels: +/- 150 mA (@ external)
- I/O voltage is programmable for any group
- each channel can be configured independently (input, output, bi-directional and tri-state)

Item no. SMO-008

SFX-5364



SCANFLEX digital I/O module

- 2 operating modes: JTAG mode (SFX-5296) and burst mode
- 64 single-ended (SE) test channels in 2 x 32-bit groups; I/O voltage per group: 1.8-4.5 V; driver capability of the channels: +/- 24 mA
- I/O voltage is programmable for any group

Item no. SMO-010

SFX-9305

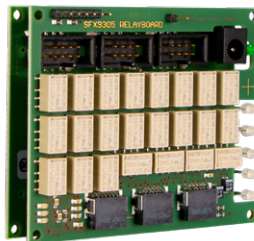


SCANFLEX multi port bus I/O module

- 5 ports which can be freely assigned for connecting BAC I/O interface cables (Bus Access Cable)
- automatic detection and configuration of the BAC I/O interface cables
- 3 serial I/O standard interfaces that are independent of one another

Item no. SMO-006

SFX-9305 / R



SCANFLEX multi port bus I/O module

- 5 ports which can be freely assigned for connecting BAC I/O interface cables (Bus Access Cable), with cut-off relay
- automatic detection and configuration of the BAC I/O interface cables
- 3 serial I/O standard interfaces that are independent of one another

Item no. SMO-007

SFX-5704



SCANFLEX mixed-signal I/O module

- 4 single-ended (SE) test channels in 4 x 1-bit groups; I/O voltage per group: -10 - +10 V; driver capability of the channels: +/- 300 mA
- I/O voltage is programmable for any group
- each channel consists of a driver / sensor stage
- 12-bit ADC for discrete recording of measurement values
- cut-off relay for galvanic isolation of the driver / sensor channels
- can be used in conjunction with SFX carrier 5, SFX-TAP8 or SFX-TAP8 / FXT (module must support 48 V, see documentation)
- external 48 V power supply (P / N STT-900) required

Item no. SMO-011

SFX-6216



SCANFLEX analogue measuring module

- 16 analogue measurement channels with cut-off relay for galvanic isolation
- 12-bit ADC with 4 channels (250 kSPS) enables simultaneous measurement of 4 of the 16 channels
- programmable ± 50 V and ± 5 V voltage range per channel
- input impedance > 1 MOhm

Item no. SMO-026

SFX-6308



SCANFLEX analogue I/O module, operation only with SFX carriers and SFX-TAP8

- 4 analogue measurement and driver channels with cut-off relay for galvanic isolation
- output voltage channels and measurement inputs have a voltage resolution of 12 bit in a range between -10 V and $+10$ V
- input impedance > 1 MOhm
- 8 digital I/O pins can be used as external trigger inputs

Item no. SMO-121

BAC options

Bus Access Cable (BAC) 9305-USB 2.0 / S

Single-port SFX-9305 bus access cable with USB 2.0 (Slave) installed in a mini desktop box



- signal conditioning (B-type connection) for testing USB 2.0 host interfaces
- support for USB low-speed and full-speed mode
- cable length 0.5 m, other lengths available on request

Item no. BAC-004

Bus Access Cable (BAC) 9305-USB 2.0 / H

Single-port SFX-9305 bus access cable with USB 2.0 (host) installed in a mini desktop box



- signal conditioning (A-type connection) for testing USB 2.0 device interfaces (slave)
- cable length 0.5 m, other lengths available on request

Item no. BAC-001

Bus Access Cable (BAC) 9305-Bluetooth



Single-port SFX-9305 bus access cable with Bluetooth installed in a mini desktop box

- Bluetooth interface for establishing a Bluetooth connection with the unit under test
- cable length 0.5 m, other lengths available on request

Item no. BAC-002

Bus Access Cable (BAC) 9305-LAN10 / 100



Single-port SFX-9305 bus access cable with Ethernet 10 / 100 MBit installed in a mini desktop box

- for Ethernet connections with 10 / 100 MBit
- signal conditioning (RJ45 Socket)
- cable length 0.5 m, other lengths available on request

Item no. BAC-003

Bus Access Cable (BAC) 9305-LAN1G



Single-port SFX-9305 bus access cable with Ethernet 1Gbit installed in a mini desktop box

- for Ethernet connections with 10 / 100 / 1000 MBit
- signal conditioning (RJ45 Socket)
- cable length 0.5 m, other lengths available on request

Item no. BAC-010

Bus Access Cable (BAC) 9305-RS232



Single-port SFX-9305 bus access cable with RS232 installed in a mini desktop box

- signal conditioning (DB9 pin socket)
- cable length 0.5 m, other lengths available on request

Item no. BAC-005

Bus Access Cable (BAC) 9305-RS422 / 485



Single-port SFX-9305 bus access cable with RS422 / RS485 installed in a mini desktop box

- signal conditioning (DB9 pin socket)
- cable length 0.5 m, other lengths available on request

Item no. BAC-006

Bus Access Cable (BAC) 9305-CAN / HS



Single-port SFX-9305 bus access cable with CAN / HS installed in a mini desktop box

- for CAN Bus - High Speed
- terminated signal conditioning (DB9 pin male)
- cable length 0.5 m, other lengths available on request

Item no. BAC-007

Bus Access Cable (BAC) 9305-CAN / LS



Single-port SFX-9305 bus access cable with CAN / LS installed in a mini desktop box

- for CAN Bus - Low Speed
- terminated signal conditioning (DB9 pin male)
- cable length 0.5 m, other lengths available on request

Item no. BAC-008

Bus Access Cable (BAC) 9305-LIN



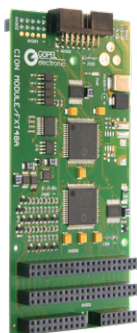
Single-port SFX-9305 bus access cable with LIN installed in a mini desktop box

- signal conditioning (DB9 pin male)
- cable length 0.5 m, other lengths available on request

Item no. BAC-009

FXT modules

CION Module / FXT48A

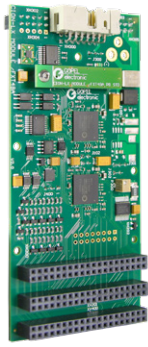


JTAG/Boundary Scan I/O module (mixed signal)

- 48 single-ended (SE) Boundary Scan test channels in 2 x 8-bit groups and 2 x 16-bit groups; I/O voltage per group: 1.8-5.0 V; driver capability of the channels: +/- 24 mA
- I/O voltage fixed on the board: 3.3 V
- I/O voltage is adjustable for any group
- each channel can be configured independently (input, output, bidirectional) and supports the unstress function
- maximum TCK frequency: 33 MHz
- 4 ADC channels (0-5 V) / 2 ADC channels (0-10 V) / 2 ADC channels (0-30 V)
- 4 DAC channels (10 bit, 0-4,096 V)
- 2 optically isolated digital inputs / 2 optically isolated digital outputs
- 1 RS485 transceiver / 2 RS232 transceiver
- cascable

Item no. 340-023

CION-LX Module / FXT48AJ

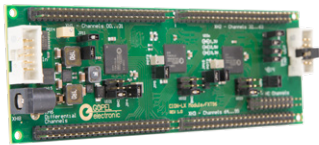


JTAG/Boundary Scan I/O module

- 48 Boundary Scan test channels, provided by CION-LX ICs
- logic level adjustable from 0.9 V to 3.6 V in four groups (2x16 and 2x8 bit)
- driver capability of the channels: ± 24 mA at 3.3 V
- CION-LX has extended test resources that are available at the 48 I/O pins:
 - 12-bit ADC (*signal recorder*)
 - 10-bit DAC (*arbitrary waveform editor*)
 - event detector
 - frequency meter
 - connectable pull-up and pull-down resistors of 10 kOhm each
 - setting for the drive strength
- driver capability of the channels: ± 24 mA
- a 12-bit AD converter LTC2309
- 4 ADC channels (0-5 V) / 2 ADC channels (0-10 V) / 2 ADC channels (0-30 V)
- 2 10-bit DA converters / 2 DAC channels (0-4,096 V)
- 2 optically isolated digital inputs / 2 optically isolated digital outputs
- 1 RS485 transceiver / 2 RS232 transceivers
- cascable

Item no. CLXM-003

CION-LX Module / FXT96

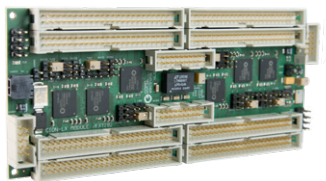


JTAG/Boundary Scan I/O module (mixed signal)

- 96 single-ended (SE) Boundary Scan test channels in 3 x 32-bit groups; I/O voltage per group: 0.9-3.6 V; driver capability of the channels: ± 24 mA
- 12 high-current (HC) Boundary Scan test channels in 1 x 12-bit group; I/O voltage per group: 0.9-2.0 V; driver capability of the channels: ± 40 mA
- 24 differential (DE) Boundary Scan test channels in 1 x 24-bit group; LVDS or CML; with full support for IEEE1149.6
- I/O voltage fixed on the board: 3.3 V, 2.5 V, 1.2 V
- I/O voltage is adjustable for any group
- each channel can be configured independently (input, output, bidirectional) and supports the unstress function
- maximum TCK frequency: 100 MHz
- extended test resources at the I/O pins:
 - 12-bit ADC + 1k RAM (*signal recorder*) at SE and HC pins
 - 10-bit DAC + 1k RAM (*arbitrary waveform generator*) at SE and HC pins
 - event detector at all pins
 - frequency meter at all pins
 - connectable pull-up and pull-down resistors (each 10k) at SE and HC pins
 - setting for the drive strength at SE and HC pins

Item no. CLXM-000

CION-LX Module / FXT192



JTAG/Boundary Scan I/O module (mixed signal)

- 192 single-ended (SE) Boundary Scan test channels in 6 x 32-bit groups; I/O voltage per group: 0.9-3.6 V; driver capability of the channels: ± 24 mA
- 24 high-current (HC) Boundary Scan test channels in 2 x 12-bit groups; I/O voltage per group: 0.9-2.0 V; driver capability of the channels: ± 40 mA
- 48 differential (DE) Boundary Scan test channels in 2 x 24-bit groups; LVDS or CML; with full support for IEEE1149.6
- I/O voltage fixed on the board: 3.3 V, 2.5 V, V_{I/O} (default 1.2 V)
- I/O voltage is adjustable for any group

- each channel can be configured independently (input, output, bidirectional) and supports the unstress function
- maximum TCK frequency: 100 MHz
- extended test resources at the I/O pins:
 - 12-bit ADC + 1k RAM (signal recorder) at SE and HC pins
 - 10-bit DAC + 1k RAM (arbitrary waveform generator) at SE and HC pins
 - event detector at all pins
 - frequency meter at all pins
 - connectable pull-up and pull-down resistors (each 10k) at SE and HC pins
 - setting for the drive strength at SE and HC pins

Item no.	CLXM-002
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ChipVORX Module / FXT-X32 / HSIO4

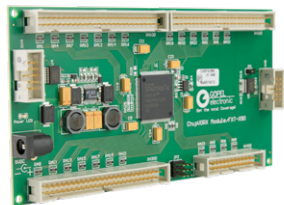


ChipVORX module for testing high-speed interfaces

- 4 Slots for interface adapter cards for high-speed I/O test (incl. bit error rate test), each with 2 serial high-speed transceivers with maximum 6.6 Gbit/s
- 32 Boundary Scan test channels with 3.3 V (no 5.0 V I/O tolerance), provided by a freely programmable Xilinx Kintex-7 FPGA
- driver capability of the channels max. ± 16 mA
- universal 32 MHz and 100 MHz clock generators
- special support for ChipVORX technology
- additional four SPI configuration memories

Item no.	CXIO-030
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ChipVORX Module / FXT-X90



ChipVORX I/O module with configurable FPGA

- 90 Boundary Scan test channels, provided by a freely programmable Xilinx Spartan-6 FPGA
- Logic level adjustable from 1.2 V to 3.3 V for 76 channels (no 5.0 V I/O tolerance)
- fixed logic level for 14 channels with 3.3 V (no 5.0 V I/O tolerance)
- the data transmission direction of each test channel can be freely programmed
- driver capability of the channels max. ± 24 mA
- universal 32 MHz clock generator
- special support for ChipVORX technology

Item no.	CXIO-010
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Desktop SCANFLEX carrier

SFX-Carrier 5



Desktop SCANFLEX Carrier for 5 x SFX-I/O module

- installed in a box
- 5 SFX-I/O slots for expansion with SFX-I/O modules
- cascadable SFX/LS bus interface (1 x SFX / LS-In, 1 x SFX / LS-Out) for connecting additional SFX desktop carrier
- 3 power relays
- also available as SFX-Carrier 10 and as SFX-Carrier 15

Item no.	SCA-000
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Solutions & systems

Studio versions

SCANBOOSTER / USB Designer Studio Base



System components in the hardware / software bundle:

- SCANBOOSTER / USB (2 TAP Version)
- CASCON GALAXY-DS Base / SX Edition incl.
- portable licence via USB, no floating licence
- software maintenance contract for one year (SMC)

Item no. SHB-020

SCANBOOSTER / USB Designer Studio Standard



System components in the hardware / software bundle:

- SCANBOOSTER / USB (2 TAP Version)
- CASCON GALAXY-DS Standard / SX Edition incl.
- portable license via USB
- software maintenance contract for one year (SMC)

Item no. SHB-021

SFX II Studio Base



SCANFLEX II Designer Studio Base

- SFX II CUBE Controller - Speedgrade A incl. 2 x multi-bus connections (JTAG, SWD, etc.)
- goJTAG Demo Board
- CASCON GALAXY Development Station Base
- licence via USB dongle
- software maintenance contract for one year (SMC)

Item no. SHB-040

SFX II Studio Standard



SCANFLEX II Designer Studio Base

- SFX II CUBE Controller - Speedgrade A incl. 2 x multi-bus connections (JTAG, SWD, etc.)
- goJTAG Demo Board
- CASCON GALAXY Development Station Standard / SX
- licence via USB dongle
- software maintenance contract for one year (SMC)

Item no. SHB-041

SFX II Studio Comfort



SCANFLEX II Designer Studio Standard Comfort

- SFX II CUBE Controller - Speedgrade A incl. 4 x multi-bus connections (JTAG, SWD, etc.)
- goJTAG Demo Board
- CASCON GALAXY Development Station Standard / SX
- layout Data Import (1 format) and visualisation
- licence via USB dongle
- software maintenance contract for one year (SMC)

Item no. SHB-042

JULIET

JULIET Series 3



Compact Embedded JTAG Solutions tester as a desktop system. Suitable for development and production, with integrated system electronics. Controlled from an external PC or laptop via USB 3.0 or Gbit LAN.

Mechanics

- compact, portable desktop model
- solid mechanics with manual loading and unloading
- Bed of nails as interchangeable cassette
- two-sided adaptation to test points and plug connectors
- LED display for test results
- controlled via operator panel on the device
- extended access protection
- access to all test resources via front interface during testing
- Tester Link Software
- online PASS / FAIL statistics
- optional MES interface

Tester interface

- 4 power supplies (internal / external)
- 4 test access ports (TAP) up to 50 MHz
- 192 mixed signal I/O channels
- 16 differential channels with IEEE1149.6 support
- 8 electrically isolated inputs / 8 electrically isolated outputs
- 32 Multi Purpose Ports (MPP)
- 32 ADC channels / 16 DAC channels
- 8 RS232 interfaces / 84 RS485 interfaces
- adapter coding 7 bit / I²C EEPROM
- cover monitoring
- power management
- 4 controllable power rails
- internal fixed voltages of 3.5 V, 5 V and 12 V
- current / voltage measurement for up to 4 UUTs
- discharge function
- external sense support
- current monitoring and shutdown

SCANFLEX II hardware

- SFX II CUBE-B
- SFX II TIC020 / LX (x4)

PCB handling

- max. board dimensions: 340 mm x 230 mm
- max. number of pins: 600 (1N)

Configuration overview · JULIET Series 3

	JULIET Series 3/RTS	JULIET Series 3/FDS	JULIET Series 3/DRS
item number	JLT-040	JLT-041	JLT-042
JTAG chains	4 (max. 50 MHz)	4 (max. 50 MHz)	4 (max. 50 MHz)
software	Test Station run-time	Test station failure diagnostic	Test station failure diagnostic & repair
I/O channels	192 - Mixed Signal	192 - Mixed Signal	192 - Mixed Signal
ADC channels	32	32	32
VarioTAP/ChipVORX/JEDOS support	yes - full	yes - full	yes - full
PC connection	USB 2.0 or Gbit Ethernet	USB 2.0 or Gbit Ethernet	USB 2.0 or Gbit Ethernet
data processing	fast - SPACE™ II architecture	fast - SPACE™ II architecture	fast - SPACE™ II architecture
power supply (internal/external)	4	4	4

Item no. JLT-04x

JULIET accessories

JULIET / Fixture Set



Original adapter including hold-down panel, pin support, moving plate, sleeve protector plate, hold-down device, board rests and interface labels.

Item no. JLT-000

JULIET / Barcode Reader Type A



Manual barcode reader for 1D codes (Datalogic Gryphon GD4130-BK), others available on request.

Item no. JLT-003

JULIET / Barcode Reader Type B



Manual barcode reader for 2D codes (Honeywell Xenon 1900GSR-2), others available on request.

Item no. JLT-102

JULIET / Self-testing fixture



Self-testing adapter with active self-testing electronics, including adapter box. Can also be used with restrictions for JULIET Series 2.

Item no. JLT-004

JULIET / Universal Fixture



Self-testing adapter with active self-testing electronics, including adapter box. Can also be used with restrictions for JULIET Series 2.

Item no. JLT-005

JULIET / Toolset



Tool kit for JULIET, including CION module and wearing parts package.

Item no. JLT-009

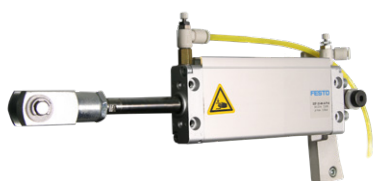
JULIET / Cover Lift



Pneumatic cylinder for automatically opening the cover once the test procedure is finished. (This option serves exclusively for opening the cover and cannot be retro-fitted.)

Item no. JLT-100

JULIET / Cover Lock



Pneumatic cylinder for automatically locking the cover during the test procedure. (This option cannot be retrofitted and serves exclusively to protect the test system and the assembly. Not suitable as a safety lock.)

Item no. JLT-101

RAPIDO

RPS910-S16

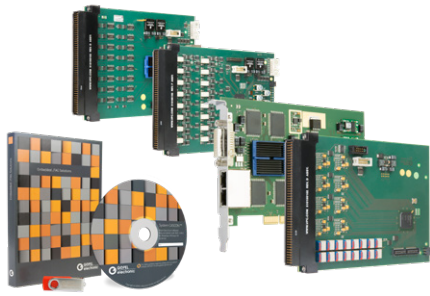


In-line programming station for 16 assemblies incl. in-line handler

- 17 VPC slots below / 6 VPC slots above
- belt module with automatic width adjustment from 60 to 250 mm
- IPC-SMEMA-9851 interface (other available on request)
- PC system
- touchscreen monitor
- in-built industrial PC
- power supply
- uninterruptible power supply (UPS) for the whole system
- 3-channel power supply unit for supplying assemblies and adapters
- 5 V / 24 V system voltage in the adapter
- SCANFLEX hardware
- SFX / PCI-1149-B Controller Card
- SFX / VPC tranceiver card for 16 TAPs
- SFX / VPC multipurpose card with 128 channels
- SFX / VPC power card for supplying up to 16 assemblies
- PCB handling
- board dimensions: 60 x 60 mm to 400 x 250 mm
- max. height of the components – top: 60 mm, underside: 20 mm
- max. PCB weight: 1500 g
- max. number of pins: 900 (above and below)

Item no. RPD-130

RAPIDO / S16PLUS



Upgrade kit for additional 16 assemblies for testing and programming. Complete set with controller, transceiver, multipurpose (MPP), power card, SFT hardware and software licences, incl. installation for new machines.

Item no. RPD-001

RAPIDO / Barcode Reader Type A



System-integrated barcode reader for 2D labels (Microscan MicroHAWK ID-30), others available on request.

Item no. RPD-004

RAPIDO SFT



Interchangeable self-testing adapter for all RAPIDO models with active self-testing electronics and FID (recommended).

Item no. RPD-005

FID (TOP or BOTTOM)



Fixture Identification and Data module (FID) for lower and upper adapters. Intelligent counter module with project-specific data storage, maintenance history and output for maintenance requests, including FID configuration software

Item no. RPD-009/010

Integration packages

Acculogic

ATE integration for Acculogic Flying Probe



ATE integration packages advanced for Acculogic Flying Probe

Item no. IP-ACxxx-x

Cobham

ATE integration for Cobham MDA/ICT/FKT



ATE integration packages for Cobham 42xx / 52xx and 58xx

Item no. IP-CBxx-x

digitaltest

ATE integration for digitaltest Condor Flying Probe



ATE integration packages for digitaltest MTS500 / MTS505 Condor

Item no. IP-DTPxx-x

ATE integration for digitaltest ICT Entry / Vacuum / Cable



ATE integration package Base for digitaltest MTS30 / MTS180 / MTS300 / MTS888 / Sprint

Item no. IP-DTxxx-x

Dr. Eschke

ATE integration for Dr. Eschke



ATE integration package for Dr. Eschke CT300 / CT350

Item no. IP-DR3xx-x

Eiger Design

ATE integration for Eiger Design

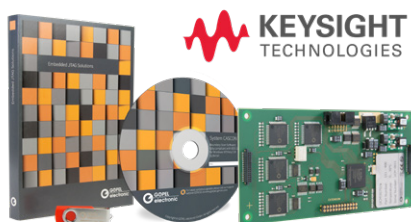


ATE integration package for Eiger Design J-tester

Item no. IP-EDJxx-x

Keysight

ATE integration for Keysight 3070 ICT



ATE integration packages for Keysight HP3070 / 3070 / i3070/ i5000/ Utility Card / Slot / Performance Port

Item no. IP-KExxx-x

LXinstruments

ATE integration for LXinstruments FCT



ATE integration package for LXinstruments function tester

Item no. IP-LXlxx-x

Polar Instruments

ATE integration for Polar Instruments



ATE integration package for Polar Instruments (GRS500) / GRS550

Item no. IP-PI5xx-x

Reinhardt

ATE integration for Reinhardt

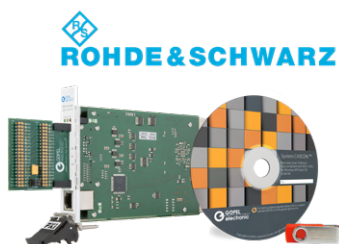


ATE integration package for Reinhardt ATS-(U)KMFT

Item no. IP-RHxx-1

Rohde & Schwarz

ATE integration for Rohde & Schwarz TSVP



ATE integration package for Rohde & Schwarz TSVP

Item no. IP-RSTxx-1

Seica

ATE integration for Seica Flying Probe



ATE integration for Seica Pilot H4 / L4 / M4 / V8

Item no. IP-SECxx-1

ATE integration for Seica ICT



ATE integration Base for Seica Compact SL / TK / Multi

Item no. IP-SECxx-1

SPEA

ATE integration for SPEA ICT



ATE integration for SPEA ICT

Item no IP-SP3xx-x

ATE integration for SPEA Flying Probe



ATE integration for SPEA Flying Prober 4020 / 4040 / 4050 / 4060 / 4080

Item no IP-SPxxx-x

Takaya

ATE integration for Takaya APT - Flying Probe



ATE integration for Takaya APT94xx / 96xx / 1400F

Item no. IP-TKxxx-x

Teradyne

ATE integration for Teradyne Spectrum ICT



ATE integration package for Teradyne Spectrum / 88xx / TSSE

Item no. IP-TD8xx-x

ATE integration for Teradyne Teststation ICT



ATE integration package for Teradyne Teststation TS / 12x / TSLH / TSLX / TSI052 / GR228x

Item no. IP-TD8xx-x

TEST-OK

ATE integration for TEST-OK



ATE integration package for TEST-OK UCM Expansion Board

Item no. IP-TOKxx-1

TRI

ATE integration for TRI TR5001



ATE integration package for TRI TR5001

Item no. IP-TR5xx-x

Demo kit

SYSTEM CASCON Demo Kit



Complete tool kit

- Boundary Scan Controller PicoTAP
- USB cable
- goJTAG Demo Board
- CASCON GALAXY Advanced Edition, restricted to use with the goJTAG Demo Board included
- compatible with Windows 7 / 8.x / 10 (32 / 64 bit)
- USB dongle

Item no. TAS-011

Cable tester

ChipVORX Module / GCaT



Gigabit cable tester based on the Xilinx Kintex-7

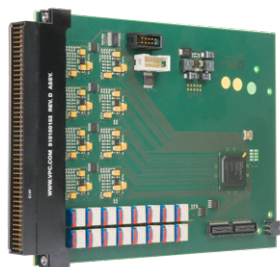
- 4 slots (each with 2 GTX transceivers) for bit error rate tests and eye diagram display for testing high-speed cables
- transmission speeds of up to 6.6 Gbit/s.
- integrated testing software

Item no. CXIO-040

Accessories

VPC modules

SFX / VPC-MPP / M1

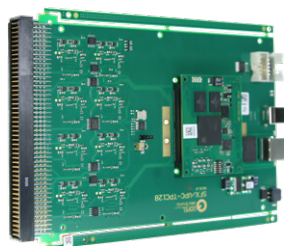


Fixture SCANFLEX digital I/O module for gang applications

- Mass interconnect interface for 128 MPP (Multi Purpose Port) signals (16 groups x 8 MPP signals) to support 16 TAPs
- each channel can be configured independently (input, output, bi-directional)
- I/O voltage can be programmed in 16 groups, each with 8 channels (1.8-4.5 V)
- driver capability of the channels +/- 24 mA
- use as generic I/Os, test channels, PIP replacement and as control lines in the AFPG (FLASH)
- each signal has a 220 in-line resistor

Item no. RPD-720

SFX / VPC-TPC128

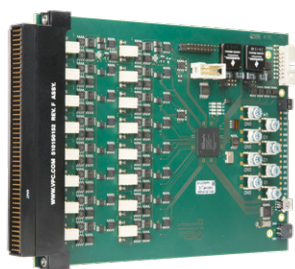


SCANFLEX Test Pattern Card

- 128 I/O channels (16 groups of 8 I/O signals each for up to 16 UUTs)
- 8 additional PIO channels
- VPC interface with 192 Pin Receiver from Virginia Panel (P/N 510150152)
- control via Gigabit LAN and web interface
- no driver installation required

Item no. RPD-721

SFX / VPC-PWR16-M1



Fixture SCANFLEX power control for gang applications

- Mass interconnect interface with support for eight UUTs with four (8 x 4) voltages or 16 UUTs with two (16 x 2) voltages
- based on the 192-pin receiver from Virginia Panel (P/N 510150152)
- voltage range max. +/-20 V with 2A based on mass (for each voltage of a UUT)
- arranged in a 2 x 2 x 8 matrix (8 times 2 relays, each with 2 voltages, one relay therefore always switching 2 voltages)
- measurement of the input voltages
- excess current detection and automatic shutdown possible on every UUT
- output voltages are defined by external power supply
- controlled via SFX/LS power bus when using an SFX/VPC- TAP16/M1
- controlled via USB (mini USB socket) when using other SFX transceivers
- external power supply required

Item no. RPD-740

CION ICs & accessories

CION



Configurable PIO module

- with extended IEEE1149.1 architecture
- 4 operating modes (Boundary Scan, PIO, PXI, driver)
- 32 single-ended (SE) Boundary Scan test channels in 4 x 8-bit ports; I/O voltage per port: 1.8-5.0 V; driver capability of the channels: +/- 24mA

Item no. 331-001

CION-LX



Configurable PIO module

- 11 operating modes (Boundary Scan, PIO, PXI, driver)
- 32 single-ended (SE) Boundary Scan test channels in 4 x 8-bit ports; I/O voltage per port: 0.9-3.6 V; driver capability of the channels: +/- 24 mA
- 4 high-current (HC) Boundary Scan test channels in 1 x 4-bit port; I/O voltage: 0.9-2.0 V; driver capability of the channels: +/- 40 mA
- 8 differential (DE) Boundary Scan test channels in 1 x 8-bit group; LVDS or CML; with full support for IEEE1149.6
- each channel can be configured independently (input, output, bidirectional) and supports the unstress function
- simultaneous driving and measurement of all I/Os
- maximum TCK frequency: 100 MHz
- extended test resources at the I/O pins:
 - 12-bit ADC + 1k RAM (signal recorder) at SE and HC pins
 - 10-bit DAC + 1k RAM (arbitrary waveform generator) at SE and HC pins
 - event detector at all pins
 - frequency meter at all pins
 - connectable pull-up and pull-down resistors (each 10k) at SE and HC pins
 - setting for the drive strength at SE and HC pins
- 116-pin LGA housing 11 mm x 11 mm

Item no. CLX-001

Boundary Scan Probe



Logic tester

- JTAG / Boundary Scan (TAP) Interface
- JTAG / Boundary Scan Signal Emulation
- with Drive / Sense – electronics
- spot lighting
- toggle function
- status LED

Item no. 312-000

Board grabber & accessories

SFX / Board Grabber-L



- total size: 470 x 505 x 160 mm
- frame size: 400 x 300 mm
- for a PCB size of up to 285 x 235 x 4 mm when the rails are used vertically
- for a PCB size of up to 335 x 185 x 4 mm when the rails are used horizontally

Item no. SUF-010

SFX / Board Grabber-XL



- total size: 570 x 605 x 160 mm
- frame size: 500 x 400 mm
- for a PCB size of up to 385 x 335 x 4 mm when the rails are used vertically
- for a PCB size of up to 435 x 285 x 4 mm when the rails are used horizontally

Item no. SUF-020

SFX / Board Grabber-XXL



- total size: 670 x 705 x 160 mm
- frame size: 600 x 500 mm
- for a PCB size of up to 485 x 435 x 4 mm when the rails are used vertically
- for a PCB size of up to 535 x 385 x 4 mm when the rails are used horizontally

Item no. SUF-030

BG-Nail Probe / RA

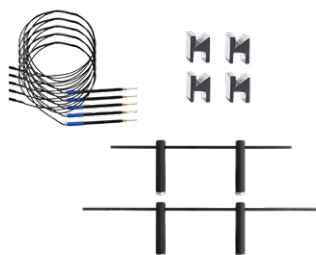


For all SFX / Board Grabber

- 1 rectangular pin (black colour) with 0.5 m cable and with magnetic feet (stand-alone)

Item no. SUF-000

BG-Access Kit / 5

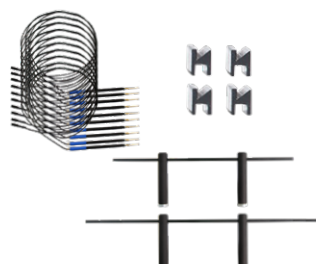


BG-Access Kit / 5 for board grabbers

- 5 pins (each with a different colour)
- 550 mm cable
- includes 2 rails
- 4 board holders

Item no. SUF-001

BG-Access Kit / 10



BG-Access Kit / 10 for board grabbers

- 10 pins (5 black and 5 in various colours)
- 550 mm cable
- includes 2 rails
- 4 board holders

Item no. SUF-002

BG-Nail Holders



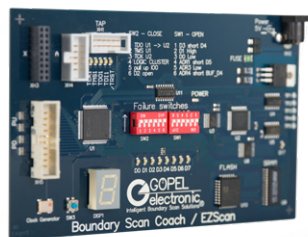
BG-Nail Holders

- BG / Nail Holders for board grabber
- rails and magnetic holders for additional pins

Item no. SUF-003

Demo boards

Boundary Scan Coach / EZScan

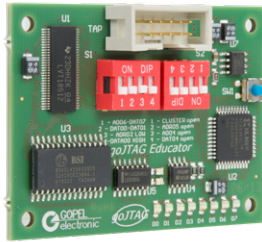


Simple training board for mastering Boundary Scan technology

- 2 Boundary Scan ICs (CPLD)
- Fault switch
- LED
- Buffer
- Logic
- RAM
- Flash

Item no. 325-001

GoJTAG Demo Board



Simple training board for getting started with Boundary Scan technology

- 2 Boundary Scan ICs (CPLD)
- Fault switch
- Push button
- Serial Flash
- RAM
- LED

Item no. TAS-003

ESA Coach

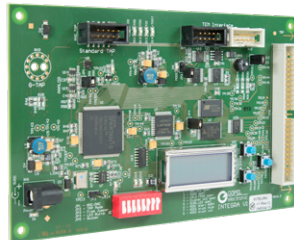


Complex "Embedded System Access (ESA)" training board for JTAG / Boundary Scan, VarioTAP and ChipVORX applications

- Atmel AT91SAM9G45 MCU (ARM)
- Xilinx FPGA
- I2C flash
- NOR and NAND flash
- SD-DDR2 RAM
- graphic display
- analogue potentiometer
- digital I/Os

Item no. TAS-004

Integra V1



Reference board for demonstrating and qualifying JTAG/ Boundary Scan integrations in ICT / MDA / FCT / FPT

- Boundary Scan modules (FPGA, CPLD)
- Non-Boundary Scan modules (flash, RAM, display, ADC, DAC, LED, reverser)
- additional test points are available on both sides for pin access, enabling a combination of Boundary Scan and ICT / MDA / FPT operations
- simulation of production faults using fault switch
- G-TAP support
- dimensions: 160 x 100 mm

Item no. TAS-005

Software

CASCON GALAXY-DS Base Edition



JTAG/Boundary Scan software package with tools for

- Test Program Generation
 - ATPG Infrastructure Test
 - ATPG Interconnection Test 1149.1
 - Basic Test Generation
 - TP Generation 1149.4
 - Data Import Processor
- Data Analyzing, Visualisation and Debugging
 - Design and Testability Explorer
 - Netlist Merger
 - Advanced Vector Browser
 - ScanAssist Multi Mode Debugger
 - ScanAssist Interactive Pin Toggler
- Pin Failure Diagnostic Tools (PFD)
 - PFD Infrastructure
 - PFD Interconnection 1149.1 und 1149.6
 - Universal Pin Failure Detection
 - Failure Diagnostics 1149.4
- SYSTEM CASCON Platform Module
 - Test / ISP (Batch) Execution
 - SX Upgrade / TAP Limit
 - VarioCore Handler
 - Hybrid Vector Splitter
 - SX-Upgrade / Scan Router Handler
 - Multi User Manager
 - Floating Licence Manager
 - Automated Process Scripting
 - CASCON Device Library
 - CASCON Full Platform License

Item no. 211-001

CASCON GALAXY-DS Standard Edition



JTAG/Boundary Scan software package with tools for

- Test Program Generation
 - ATPG Infrastructure Test
 - ATPG Interconnection Test 1149.1
 - ATPG Memory Access
 - ATPG Device Model
 - Basic Test Generation
 - TP Generation 1149.4
- In-System Programming
 - Basic Flash-Programming
 - Automated Flash Programming (AFPG)
 - PLD Program Generator
 - Data Import Processor
- Pin Failure Diagnostics Tools (PFD)
 - PFD Infrastructure
 - PFD Interconnection 1149.1 und 1149.6
 - PFD Memory Access
 - Universal Pin Failure Detection
 - Failure Diagnostics 1149.4
- SYSTEM CASCON Platform Module
 - SX Upgrade / TAP Limit
 - VarioCore Handler
 - Multi User Manager
 - Floating Licence Manager
 - CASCON Device Library

Item no. 224-001

CASCON GALAXY-DS Classic Edition



JTAG/Boundary Scan software package with tools for

- Test Program Generation
 - ATPG Infrastructure Test
 - ATPG Interconnection Test 1149.1, 1149.6
 - ATPG Clusters (True Table)
 - ATPG Clusters (Waveform)
 - ATPG Memory Access
 - ATPG Logic Components
 - ATPG Device Model
 - Basic Test Generation
 - TP Generation 1149.4
 - Basic VarioTap Test Generation
- In-System Programming
 - Basic Flash Programming
 - Automated Flash Programming (AFPG)
 - Automated VarioTAP Flash ISP
 - PLD Programm Generator
 - Data Import Processor
- Data Analyzing, Visualisation and Debugging
 - Netlist Merger
 - Test Coverage Analyser
 - Scan Vision III Layout Reader
 - Scan Vision III Layout
 - Advanced Vector Browser
 - Scan Assist Multi Mode Debugger
 - Scan Assist Interactive Pin Toggler
- Pin Failure Diagnostic Tools (PFD)
 - PFD Infrastructure
 - PFD Interconnection 1149.1 und 1149.6
 - PFD Memory Access
 - PFD Logic Components
 - PFD Clusters (Truth Table)
 - Universal Pin Failure Detection
- SYSTEM CASCON Platform Module
 - SX Upgrade / Multi TAP (>2)
 - SX Upgrade / Scan Router Handler
 - SX Upgrade / Scan Gang Handler
 - Multi User Manager (myCASCON)
 - Floating Licence Manager
- Demo Board

Item no. 223-001

CASCON GALAXY-DS Advanced Edition



JTAG/Boundary Scan software package with tools for

- Program Generation
 - ATPG Infrastructure Test
 - ATPG Interconnection Test 1149.1, 1149.6
 - ATPG Clusters (True Table)
 - ATPG Clusters (Waveform)
 - ATPG Memory Access
 - ATPG Logic Components
 - ATPG Device Model
 - Basic Test Generation
 - TP Generation 1149.4
 - AVTG Dynamic Memory Access
 - Basic VarioTAP Test Generation
 - ATPG Flying Probe
- In-System Programming
 - Basic Flash Programming
 - Automated Flash Programming (AFPG)
 - Automated VarioTAP Flash Programming
 - Automated VarioTAP Flash Programming
 - PLD Program Generator

- Data import Processor Data Analyzing, Visualisation and Debugging
 - *Netlist Merger*
 - *Test Coverage Analyzer*
 - *Scan Vision III Layout Reader*
 - *Scan Vision III Layout*
 - *Advanced Vector Browser*
 - *ScanAssist Multi Mode Debugger*
 - *ScanAssist Interactive Pin Toggler*
- Pin Failure Diagnostic Tools (PFD)
 - *PFD Infrastructure*
 - *PFD Interconnection 1149.1 und 1149.6*
 - *PFD Memory Access*
 - *PFD Logic Components*
 - *PFD Clusters (Truth Table)*
 - *PFD Flying Probe*
 - *Universal Pin Failure Detection*
 - *Failure Diagnostics 1149.4*
- SYSTEM CASCON Platform Module
 - *SX Upgrade / TAP Limit(>2)*
 - *VarioCore Handler*
 - *SX Upgrade / Scan Router Handler*
 - *SX Upgrade / Scan Gang Handler*
 - *Multi User Manager*
 - *Floating Licence Manager*
 - *CASCON Device Library*
- Demo Board

Item no. 222-001

CASCON GALAXY-TS Run Time Edition



JTAG/Boundary Scan software package with tools for

- Data Analyzing, Visualizing and Debugging
 - *Advanced Vector Browser*
- Pin Failure Diagnostic Tools (PFD)
 - *PFD Infrastructure*
 - *Universal Pin Failure Detection*
 - *Failure Diagnostics 1149.4*
- SYSTEM CASCON Platform Module
 - *VarioCore Handler*
 - *Multi User Manager*

Item no. 211-011

CASCON GALAXY-TS Failure Diagnostic Edition



JTAG/Boundary Scan software package with tools for

- Data Analysis, Visualisation and Debugging
- Pin Failure Diagnostic Tools (PFD)
 - *PFD Infrastructure*
 - *PFD Interconnection 1149.1 und 1149.6*
 - *PFD Memory Access*
 - *PFD Logic Components*
 - *PFD Clusters (Truth Table)*
 - *Universal Pin Failure Detection*
 - *Failure Diagnostics 1149.4*
- SYSTEM CASCON Platform Module
 - *SX Upgrade / TAP Limit (>2)*
 - *VarioCore Handler*
 - *SX Upgrade / Scan Router Handler*
 - *SX Upgrade / Scan Gang Handler*
 - *Multi User Manager*
 - *Floating Licence Manager*

Item no. 225-011

CASCON GALAXY-TS Diagnostic & Repair Edition

JTAG/Boundary Scan software package with tools for



- Data Analysis, Visualisation and Debugging
 - *Scan Vision III Layout*
 - *Advanced Vector Browser*
 - *ScanAssist Multi Mode Debugger*
 - *ScanAssist Interactive Pin Toggle*
- Pin Failure Diagnostic Tools (PFD)
 - *PFD Infrastructure*
 - *PFD Interconnection 1149.1 und 1149.6*
 - *PFD Memory Access*
 - *PFD Logic Components*
 - *PFD Clusters (Truth Table)*
 - *Universal Pin Failure Detection*
 - *Failure Diagnostics 1149.4*
- SYSTEM CASCON Platform Module
 - *SX Upgrade / TAP Limit (>2)*
 - *VarioCore Handler*
 - *SX Upgrade / Scan Router Handler*
 - *SX Upgrade / Scan Gang Handler*
 - *Multi User Manager*
 - *Floating Licence Manager*

Item no. 225-020



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