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Frame & Control System

miniHUB™

giving value

miniHUB

RCONmini   Card 1   Card 2   Card 3   Card 4   Passive ports
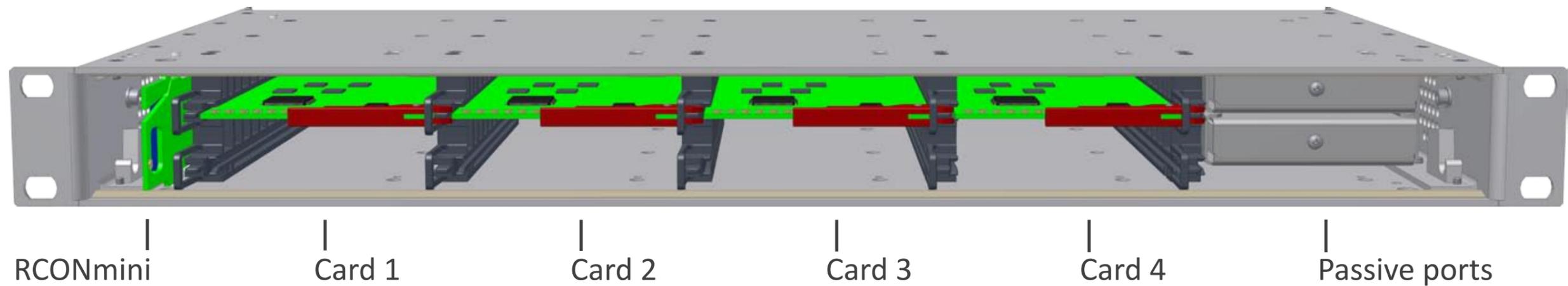
Click & Go card locking is a secure and sure way of knowing that your signal path will not be interrupted by cards accidently slipping during transportation or coming loose over time.
The "Click" sound is heard once the card is securely positioned.

RCON mini

RCON mini is the controller card for the miniHUB system.

The compactness of the RCON mini is beyond anything on the market   today. Its not necessary to fit this card but the additional control benefit that are possible over the intelligent OC-4B-SDI card gives more value if you require near site and off site control and monitoring.

This cards provides control functionality for 3rd party management system via SMNP protocol and can integrate into any system with the supplied MIB package

It also acts as a sync distribution card giving correct switching properties for all cards in the frame.

Provides cooling functionality for the miniHUB frame.

Stores configuration backups on SD memory card which is accessible from the front.

Its a robust simple control platform that has been developed for stability and no nonsense control and monitoring.

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OC-4B-SDI Card

This is the most versatile card on the market today. Its flexibility is beyond approach.

From simple links to Optical distribution, Optical transponding and add/drop networking, this card is a multipurpose tool made for any Outside/Venue broadcaster, Fiber network operator or Broadcast production station.

This card can be re-purposed for new application when needed in seconds which makes this an uniquely innovative product.

For more information on this card please view our OC-4B-SDI brochure.

Passive ports

In addition to the possibilities of the OC-4B-SDI card we have added 2, 8 channel CWDM modules in the passive ports of miniHUB frame.

By adding CWDM SFP's to the OC-4B-SDI you can transform this one rack unit frame into a full 16 channel bi-directional CWDM fiber distribution system or two, 8 channel systems.

miniHUB

Sync Ethernet

Passive ports   Rear card 4   Rear card 3   Rear card 2   Rear card 1   Dual Power
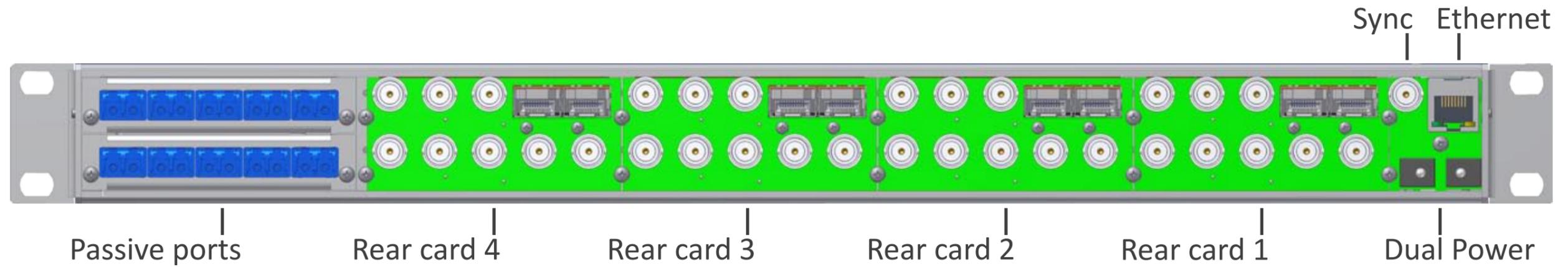
Colour changeable front doors

Rear connector with Flexi I/O™ technology

FLEXIBILITY beyond imagination! Where else can you start with a simple single channel system and buildup to a 16 CWDM system with minimal effort or change the system into a receive system from a transmit system while only changing the SFP's. Maybe you want a transponder instead for the next event! it is all obtainable with the miniHUB system.

SFP based designs were used to give the product user changeable modules. These can be changed on the fly to give combinations of RX/RX, RX/TX, TX/TX or Single channel functionality or you can further upgrade to CWDM technology to give greater fiber density, the choice is yours! Once you change to a different SFP, the card will auto configure the Flexi I/O to its predetermined configuration, that's smart!
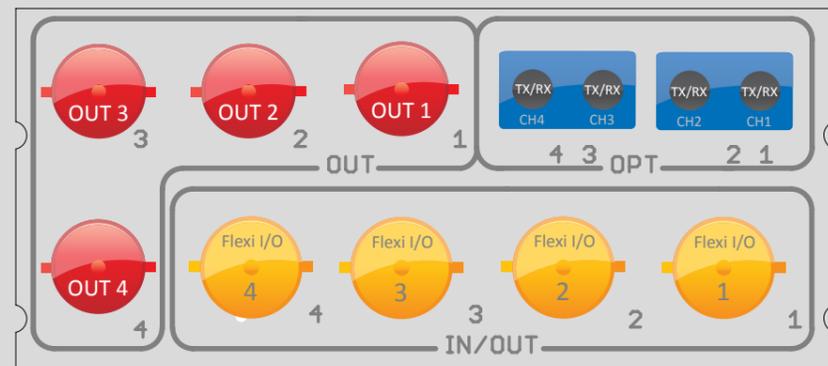
OUTPUT BNC will deliver SDI video depending on the configuration chosen. Each output is re-clocked and has excellent jitter specifications. Outputs are fully DVB-ASI compliant while the high frequency designed backplane cards have great return loss at 3Gbit to give maximum distance.

Flexi I/O™ is the next generation technology that brings flexibility to the user. Whenever you see this yellow icon you will know that this BNC can act as either a Input or Output depe nding on the determined configuration. This gives better use of BNC resources and give the OC-4B-SDI its Chameleon like features.

Easy change Dual power supplies

Two external power supplies can be connected to ensure reliability of your signal distribution system. These power supplies are external to the chassis to enable fast change out if needed.
The DC inputs on the rear of the chassis will take a wide supply range from 12 to 24 volt, this also give the user the choice of using battery power or other DC supplies that could be available.

Quick change SFP

SFP are changeable from the back of the frame. This makes it exceptional easy when changing or adding extra channels to your system. You could be upgraded in second from 1 to 2 or 1 to 4 channels. Flexi I/O™does all the work and predetermines the configuration once you have inserted a SFP into the frame.

SYNC & Ethernet

SYNC information is distributed to every card in the miniHUB frame to provide synchronization and the Ethernet connector is used to provide control from 3rd party SNMP systems or a dedicated control application.

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miniHUB Technical specifications

miniHUB is a 1 rack unit frame that will hold up to 4 cards and 2 passive optical devices.

The miniHUB frame is supplied with RCONmini (Frame Controller) which provides all external data control and referencing to the cards within. 1 power module is included in the frame purchase and there are facilities for a second supply to be connected if redundancy is an issue.

miniHUB is constructed of high quality material that will withstand rigorous environments. Features such as "Click & Go" card locking system is standard and provides operational continuity in harsh conditions.

Frame Specifications

Model No:	miniHUB-1RU-4-2
Frame power input range	+12 VDC to +24 VDC
Connector type:	MICRO-MNL, mates with TYCO 794617-4
Power connectors on frame:	2
Mixed supplies allowed:	Yes, diode split input
Dimensions of frame:	483 x 44 x 255 mm (19", 1RU)
Card slots - active:	4
Passive optical slots:	2
Operating temperature	0 deg Celcius to +45 deg Celcius
Relative humidity	<90% (non-condensing)
Door release mechanism	Push to release and push to close
Door removal	Yes, hinged for normal use

Power supply

Model No:	FSP060-DBAB1
AC input:	100-240 VAC, 1.5A, 50-60Hz
Output voltage:	+24VDC, 2.5A MAX
Maximum wattage:	60 W
Input connector:	IEC 60320 C14
Power LED indicator:	Yes
Dimensions:	110 x 62 x 32 mm (L/W/H)
MTBF	100,000 hours
Certification:	UL, CE and CB

Control

Model No:	RCONmini
Connector type:	RJ45
Connector Indicator:	Yes, 10/100Mbit & Link
Control language:	html
SNMP enabled:	Yes

Sync

Connector type:	75 ohm BNC
Signal Type:	Black and Burst / Tri-level
Distributed in frame:	Yes

Cooling

Fans:	3 x Processor controlled
Size:	30 x 30 x 10 mm (W/H/D)
Control:	Temperature sense with speed control

Front

RCONmini   Card 1   Card 2   Card 3   Card 4   Passive ports

Rear

Sync I/P Ethernet
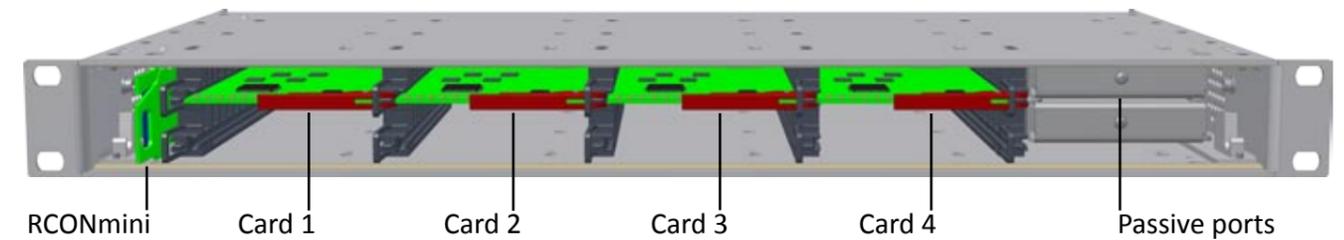
Passive ports   Rear Card 4   Rear Card 3   Rear Card 2   Rear Card 1   Dual Power
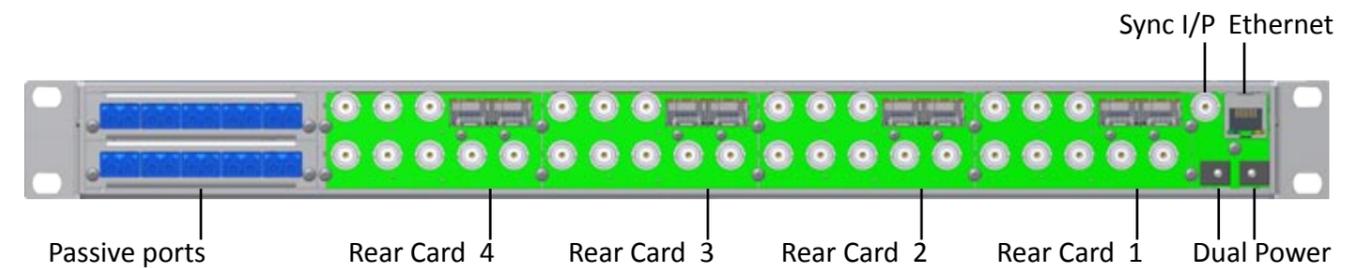
OC-4B-SDI back panel

Model No:	OC-4B-SDI-B1
SFP slots	2
SFP type	Norwia OEM type, (see SFP type list)
BNC (Standard O/P)	4 x 75 ohm output
BNC (Flexi-IO)	4 x 75 ohm (input or output)
Input/Output specifications	(See OC-4B-SDI Technical specification)
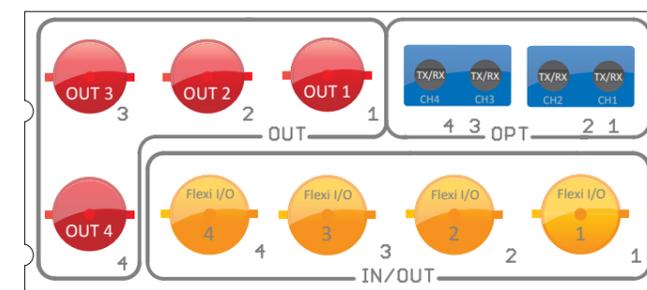
(Norwia reserves the right to change specifications without notice)

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Norwia is a fresh breath of air and unlike all other predecessors will bring innovation and cutting edge thinking to the broadcast optical distribution domain.

Competitive technology edge

Key industry personnel with the right stuff!

Better business philosophies

Customer centric ideologies

These are our core fundamental and together this forms the value statement, giving value!

Vision statement

Norwia will be the best for Optical Distribution products in the sense of technical innovation, value for investment and customer relations.

… giving value

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