



## 1RU, 2RU, 3RU and 4RU HD Rack Mount CPRI Ports

### 1RU, 2RU, 3RU AND 4RU HD RACK MOUNT CPRI PORTS

Common Public Radio Interface (CPRI) was developed to allow Radio Frequency (RF) to be delivered over fiber. Next generation cell sites using fiber-to-the-antenna (FTTA) where the baseband unit (BBU) is placed at the base of the tower and fiber feeds the remote radio heads. The CPRI link connects the remote units to the baseband. Current testing requires a tower climb. With the recent development of base station analyzers, field techs can now gain access to RF signals and the spectrum without climbing the tower. The analyzers can be used with distributed antenna systems (DAS), small cells, hybrid sites and macro cellular locations. Validating and debugging CPRI links between devices such as remote radio heads (RRH) and BBU's has become much easier and less costly. Such testing requires a CPRI Interface Test Panel (ITP).

The Cablcon CPRI ITP is installed between the Optical CPRI BBU and the RRH. The ITP allows carriers to view and troubleshoot RF interference within the uplink Rx spectrum. The test panel provides non-service affecting monitor ports for which a protocol analyzer can be used to decode the transmit data stream from an active antenna.

### FEATURES

- Universal High Density (UHD) module fits into Cablcon 1RU, 2RU, 3RU and 4RU chassis, giving you the flexibility to re-use the UHD module when changing chassis size.
- 1RU enclosure accommodates up to 3 UHD modules or 18 links.
- 2RU enclosure accommodates up to 6 UHD modules or 36 links, and includes a cable management routing area.
- 3RU enclosure accommodates up to 12 UHD modules or 72 links.
- 4RU enclosure accommodates up to 12 UHD modules or 72 links, and includes a cable management routing area.
- LGX style modules with frontal ports 2" from access door, allowing for parking lot dust plugs and future permanent test cords.
- Color coded ports for easy fiber routing.
- Reversible rack mount ears for 19" or 23" wide frames.
- Connector Style: LC/UPC. (Duplex LC Bulkheads: Blue, Violet, Green, Brown, Yellow, White)
- Modular Couplers 1x2, 50:50 Split, 9/125um
- Manufactured in the USA in our two ISO 9001 and TL 9000 Certified plants.

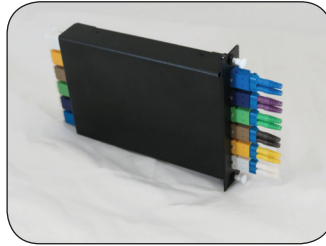
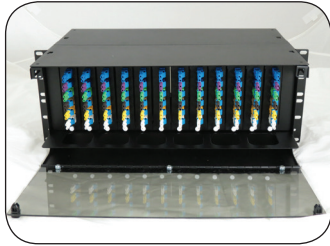
### TESTING & VERIFICATION

- Manufacturing process driven through a Control Plan.
- Consecutive inspections throughout the manufacturing process.
- Bi-directional Insertion Loss Test Limits: 2.7dB Min to 3.5dB Max.
- Validation testing to 3dB split 50/50 is correct (+/- .3dB, >-50dB Back Reflection).
- All points of connection tested for End Face Cleanliness (EFC) to IEC standard IEC-61300-3-35 using digital mapping software.
- Proprietary fiber mapping process as first level quality assurance for port-to-port continuity.
- VFL (laser source) introduced into each splitter (IN) port to verify location of the 50/50 test ports.





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Rack Mount CPRI Ports



Description	Part Number
1RU HD CPRI Chassis - (3) Module Capacity	CPRI-1HD0
2RU HD CPRI Chassis w/Cable Management - (6) Module Capacity	CPRI-2HD0
3RU HD CPRI Chassis - (12) Module Capacity	CPRI-3HD0
4RU HD CPRI Chassis w/Cable Management - (12) Module Capacity	CPRI-4HD0
HD Chassis Blank Strip	CPRI-HDBLANK
18 Port Universal HD CPRI Module	CPRI-HDCASS18
Kit of 6 SM Duplex Jumpers 2M	CPRI-6LCLC-2M
Kit of 6 SM Duplex Jumpers 3M	CPRI-6LCLC-3M
Kit of 6 SM Duplex Jumpers 5M	CPRI-6LCLC-5M
Kit of 6 SM Duplex Jumpers 7M	CPRI-6LCLC-7M

