C6210 Series

ION DS3 - T3/E3 Network Interface Device Module
DS3 – T3/E3 Coax over Fiber

The ION C6210 is a managed media converter module that provides a solution for those users that need to extend DS3-T3/E3 connections over fiber. The C6210 is available in versions that support fixed fiber connectors as well as SFP fiber modules offering support for a variety of fiber types, distances, and wavelengths to provide maximum flexibility across a variety of network topologies. CWDM SFPs can also be utilized to further increase the bandwidth capacity of the fiber infrastructure.

The C6210 DS3-T3/E3 converters must be used in pairs. A typical installation will include a modular card installed in a managed ION chassis linked over fiber to a stand-alone S6210 in a remote location.

### Features
- AIS (Alarm Indication Signal)
- Coax Line Build Out
- Switch selectable for DS3/T3 or E3
- Remote firmware upgrade
- Loopback – Coax and Fiber
- LEDs for immediate visual status
- Supports dual or single fiber
- Supports multimode and single mode fiber at a variety of distances
- Supports CWDM SFPs
- SNMP management when used with ION chassis and management module
- Remote stand-alone can be managed by local peer
- Must be used in pairs

### Specifications

#### Standards
- ANSI
- ITU-T
- ETSI
- G.823 for jitter tolerance
- G.755 for loss of signal

#### Coax Connectors
- 75 ohm coax

#### Fiber Connectors
- SFP: LC connector Uses standard 100Base-X/OC-3
- SFP Fixed Optics: ST or SC connector

#### Data Rates
- DS3/T3 = 44.7Mbps; E3 = 34.4Mbps

#### Status LEDs
- Power, Coax link status, coax loopback status, AIS on coax link; Fiber link status, fiber loopback status, AIS on fiber link

#### Dimensions
- Width: 0.86” [22 mm]
- Depth: 6.5” [165 mm]
- Height: 3.4” [86 mm]

#### Power Consumption
- 2.5 Watts

#### Environment
- Environment specs are dependent on the chassis chosen
- Operating: 0°C to 50°C
- Humidity: 5% to 95% (non-condensing)
- Altitude: 0 – 10,000 ft.

#### Weight
- 1 lb. [0.45 kg]

#### MTBF
- Greater than 250,000 hours (MIL-HDBD-217F)
- Greater than 687,000 hours (Bellcore)

#### Certifications
- CISPR/EN55022 Class A, FCC Class A, CE Mark

#### Warranty
- Lifetime

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### Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Link Budget</th>
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</thead>
<tbody>
<tr>
<td>C6210-3013</td>
<td>2 Coax (BNC) to 1300nm multimode (SC) [2 km/1.2 mi.]</td>
<td>11.0 dB</td>
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<tr>
<td>C6210-3014</td>
<td>2 Coax (BNC) to 1310nm single mode (SC) [20 km/12.4 mi.]</td>
<td>16.0 dB</td>
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<tr>
<td>C6210-3040</td>
<td>2 Coax (BNC) to *SFP slot (empty)</td>
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Optional Accessories (sold separately)

**SFP Modules**

*SFP port uses standard 100Base-x/oc-3 SFP*