

# iMAP™ CFC100/GX (AT-TN-409/410)

## Central Fabric Controller Module—100Gbps

The Allied Telesis integrated Multiservice Access Platform (iMAP™) CFC100 (Central Fabric Controller) module, available for use with the iMAP™ 9810, is an advancement in controller card capability and size, supporting 10Gbps per slot and 100Gbps aggregation.

### Carrier-Grade Controller

The Allied Telesis iMAP CFC100 provides unmatched flexibility for access and aggregation of bandwidth-intensive applications and services including the delivery of IP Triple Play over any fiber or copper media as well as carrier Ethernet services to residential and business customers. The iMAP CFC100 provides increased switching capacity and enhanced QoS capabilities.

The iMAP CFC100 is ideally suited to support the delivery of GbE or 10GbE services to any location relying on last-mile fiber access. With advanced features, including per VLAN rate limiting, the 1GbE or 10GbE ports can be used either as network interfaces for subtended remote locations, aggregation into metro routers (provider edge) or for point-to-point connectivity to a strategic business. This is in addition to allowing the service provider to have up to eight different service modules in the iMAP 9810 for delivering value-add next-generation broadband services and applications.

When used in conjunction with the iMAP™ XE6 network channel unit, a pair of iMAP XE6 channel units can be used to aggregate multiple 10Gbps access rings or 10Gbps aggregation rings. When used in conjunction with the iMAP™ GE8 line card, a pair of GE8 modules can be used to subtend up to eight Ethernet Protection Switched Rings (EPSRings™) providing an extremely flexible, reliable and dense aggregation point from any network location. If point-to-point

aggregation links are required, the GE8 service module card provides cost-effective and feature-rich aggregation to any GbE network element. As network designs continue to blend the line between access and transport, the CFC100 will become a key component of any IP Triple Play and carrier Ethernet network design.

### Specifications

#### Port Specifications

Number of VLANs per port 4095  
 Priority queues Eight  
 Dropped packet counter  
 Full traffic classifier support  
 Full traffic classifier action support

#### Protocols and Specifications

IEEE 802.1Q VLAN bridging  
 IEEE 802.1p Traffic class expediting  
 IETF RFC 1112 IP multicasting/IGMP snooping v1  
 IETF RFC 2236 IP multicasting/IGMP snooping v2  
 DHCP relay agent option 82 (RFC 3046)  
 IEEE 802.1d,w Rapid Spanning-Tree  
 IEEE 802.1q MEV (double tagging)  
 IEEE 802.3ad Link aggregation  
 IETF RFC 3619 EAPS w/Allied Telesis extensions for EPSR  
 IETF RFC 2131 DHCP  
 IETF RFC 1350 TFTP

#### Power Requirements

Maximum power 28W

#### Environmental

Operating temp -40°C to 65°C (-40°F to 149°F)  
 Storage temp -40°C to 75°C (-40°F to 167°F)  
 Relative humidity 5% to 95%, non-condensing

#### Regulatory Approvals

FCC Part 15 Class A/ANSI C63.4  
 EN 300 386 V1.3.1:2001-09/EN 55022:1998, Class A  
 VCCI Class A; ITE/ CISPR 22:1997 Class A  
 EN 300 386 V1.3.1:2001-09/EN 55022:1998, Class A  
 EN 300 386 V1.3.1:2001-09/EN 61000-4-3:1998  
 EN 300 386 V1.3.1:2001-09/EN 6100-4-6:1996  
 EN 300 386 V1.3.1:2001-09/EN 61000-4-4:1995  
 EN 300 386 V1.3.1:2001-09/EN 61000-4-5:1995  
 EN 300 386 V1.3.1:2001-09/EN 61000-4-2:1999  
 UL/cUL 60950: IEC60950



## Key Features

- ▶ SNMP management
- ▶ Fully functional CLI
- ▶ In-band management
- ▶ Out-of-band management
- ▶ Contact alarm management
- ▶ Support for EPSR 50ms resiliency
- ▶ Hardened for OSP designs

### Quality of Service

- ▶ Eight queues
- ▶ Strict priority scheduling
- ▶ VLAN stacking

### Security

- ▶ Upstream forwarding only
- ▶ Extensive ACL support

### Supported Services

- ▶ High-speed internet
- ▶ VoIP
- ▶ IPTV
- ▶ Business VPN
- ▶ Network element subtending

NEBS Level 3, GR-1089 Issue 3, GR63 Issue 2  
 USDA RUS

## Ordering Information

**iMAP CFC100**  
 100Gbps switch control module (FTTX, XDSL, POTS)  
 Part number: AT-TN-409

**iMAP CFC100GX**  
 100Gbps switch control module (FTTX, XDSL)  
 Part number: AT-TN-410