

# iMAP™ CFC56 (AT-TN-407)

## Central Fabric Controller Module—56Gbps

The Allied Telesis integrated Multiservice Access Platform (iMAP™) CFC56 (Central Fabric Controller) module, available for use with the iMAP™ 9700, is an advancement in controller card capability and size, supporting ten Gigabit aggregation speed. As network bandwidth continues to grow, Service Providers find increasing bandwidth demands farther in the local loop. The ability to maintain a single IP infrastructure to address Network Transport bandwidth as well as last-mile access bandwidth is pivotal for any network operator.



### Carrier-Grade Controller

The iMAP CFC56 provides unmatched flexibility for the aggregation of bandwidth-intensive applications and services including the delivery of IP Triple Play over any media (Fiber, Copper and xDSL) as well as Carrier Ethernet services to residential and business customers. It continues to support the carrier-class capabilities from the Allied Telesis iMAP CFC family (iMAP™ CFC12 and iMAP™ CFC24) in addition to increased switching capacity and enhanced Quality of Service (QoS) capabilities.

With support for multiple ten GE and one GE connections, the iMAP CFC56 enriches the iMAP platforms with unprecedented capabilities for the delivery of user services as well as network traffic aggregation. The iMAP CFC56 is ideally suited for delivering GbE services to any Enterprise or business location relying on last-mile fiber access. With advanced features including per-VLAN rate limiting, the ten GE ports can be used as either 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 17 different service modules in the iMAP for delivering value-add next-generation broadband services and applications.

When used in conjunction with the iMAP™ GE8 channel unit installed in the Resource Module slots of an

iMAP, a pair of GE8 channel units 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 iMAP GE8 channel unit provides cost-effective and feature-rich aggregation to any GbE network element.

### 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/ATI Extensions for EPSR™  
 IETF RFC 2131 DHCP  
 IETF RFC 1350 TFTP

#### Power Requirements

Maximum power 53W

#### 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 61000-4-6:1996

## 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

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

## Ordering Information

**iMAP CFC56**  
 56GbE switch control module  
 Part number: AT-TN-407