CFC12

AT-TN408-A Central Fabric Controller module – 12Gbps

Carrier Grade Controller

The CFC12 controller module, available for use with the iMAP 9100 chassis, is a new advancement in controller card capability and size. 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.

The CFC12 enables the MiniMAP 9100, the third and most recent chassis in Allied Telesis' impressive line of carrier access products. When operating in the 9100 chassis, the CFC12 provides unmatched flexibility for triple play over any media (Fiber, Copper and xDSL) in a 1U format. It continues the carrier class capabilities from its larger brethren (CFC6 and CFC24) and adds the enhanced QoS capabilities found in Allied Telesis' 10G platform (CFC56).

With six on-board GE ports, the CFC12 is ideally suited for delivering GbE services to any Enterprise or business location relying on last mile fiber access. With advances features including per VLAN rate limiting, the GE ports on the CFC12 module can be used as either a network interface for subtended remote locations or for point-to-point connectivity to a strategic business. This is in addition to allowing the service provider to have up to 3 different service modules for delivering parallel business services, or xTTH services.

Part of Allied Telesis' IP Broadband Access Family

Whether it is Metro Ethernet, broadband ADSL2+, FTTH or POTS, the iMAP family is the ideal platform for last mile service delivery. Added to the ability to support 100% of the available iMAP service modules, the CFC12 has also been designed to survive the most rugged environmental conditions. This makes it perfect choice for networks which require high flexibility and carrier capabilities in a small form factor.

Provisioning, management and diagnostics of subscriber ports can be accomplished from either the iMAP command line interface or via the Allied View NMS. The CFC12 also has a fully supported SNMP interface and supports all the major MIBs.

Allied Telesis' iMAP family of integrated Multiservice Access Platforms

Key Features

- SNMP Management
- Fully functional CLI
- Inband Management
- Out-of-band Management
- Contact Alarm Managment
- 6 GbE Wirespeed ports
- SFP Optics
- Support for EPSR™ 50ms Resiliency
- Per VLAN Rate Limiting
- Hardened for OSP designs

QoS
- Eight Queues
- Strict Priority scheduling
- VLAN Stacking

Security
- Upstream Forwarding Only
- Extensive ACL Suport

Services Supported
- High Speed Internet
- VoIP
- IPTV
- Business VPN
- Network Element Subtending

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Interface Specifications

Number of GbE ports: 6
Backplane capacity: Nx1Gbps
Physical design: Front Access
4x SFP
2x 10/100/1000 RJ45

Port Specifications

Number of VLANs per port: 4095
Priority queues: 8
Dropped packet counter
Full traffic classifier support
Full traffic classifier action support
ARP Filtering
Egress Metering: 64kbps increment
Ingress Metering: 64Kbps
Ingress Max Burst Size: 512k
Egress Max Burst Size: 512k

Protocols and Specifications

IEEE 802.1Q VLAN Bridging
IEEE 802.1p Prioritization
IETF RFC 1112 IP Multicasting/IGMP Snooping v1
IETF RFC 2236 IP Multicasting/IGMP Snooping v2
DHCP Relay Agent option 82 (RFC 3046)

Power Requirements

Maximum Power: 53W

Environmental Specifications

Operating Temp: -40C to 65C
Storage Temp: -40C to 75C
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
NEBS Level 3, GR-1089 Issue 3, GR63 Issue 2
USDA RUS

Ordering Information

CFC12

Model	Description	Part #
CFC12	CFC-12 12GbE Switch Control Module	AT-TN-408-A

iMAP 9100 Chassis

Model	Description	Part #
MiniMAP 9101	3-slot modular 1U chassis with DC power	AT-TN-9101-A-80
MiniMAP 9102	3-slot modular 1U chassis with AC power	AT-TN-9102-A-XX*
MiniMAP 9103	3-slot modular 1U chassis with redundant AC power	AT-TN-9103-A-XX*
AC Power Supply	Spare AC power supply for 91xx chassis	AT-TN-E010-A

Supported iMAP Line Cards and Accessories

Model	Description	Part #
FE10	10-port, 100Mbps Fast Ethernet Service Module	AT-TN-102-A
FX10FX	10-port, 100Mbps MultiMode Fiber Service Module	AT-TN-104-A
FX10LX	10-port, 100Mbps SingleMode Fiber Service Module	AT-TN-107-A
FX10BX	10-port, 100Mbps SM, single fiber Service Module	AT-TN-109-A
POTS24	24-port, POTS Service Module	AT-TN-113-A
GE8	8-port, Gigabit Ethernet Service Module	AT-TN-117-A
EPON2	2-port, GEPON Service Module	AT-TN-118-A
CES8	8-port, T1/E1 Circuit Emulation Service Module	AT-TN-119-A
ADSL24A	24-port, ADSL2+ Annex A Service Module	AT-TN-121-A
PAC24	24-port, POTS/ADSL2+ Annex A Combo	AT-TN-123-A
ADSL24B	24-port, ADSL2+ Annex B Service Module	AT-TN-124-B
NTE8	8-port, MLPPP T1/E1 Service Module	AT-TN-125-A
SHDSL24	24-port, SHDSL Service Module	AT-TN-127-A
VDSL24B	24-port, VDSL2 Service Module (AnnexB)	AT-TN-128-A
ADSL24SA	24-port, ADSL2+ with splitters Service Module	AT-TN-129-A
VDSL24A	24-port, VDSL2 Service Module (AnnexA)	AT-TN-130-A

*Where XX = 10 for U.S. power cord
= 20 for no power cord
= 30 for U.K. power cord
= 40 for Australia power cord
= 50 for Europe power cord

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