



## High Performance 10/100 + Giga Edge IntraCore Switching

IC3648 is an excellent enterprise or SME network edge aggregator switch. It is a layer 2+ manage switch with very simple and straightforward installation procedure for any end users. Just plug in the network connections (10, 100 Mbps) and you'll be up and running within minutes. IC3648 switch automatically negotiates the best speed, duplex (full or half) and wiring (Auto-Uplink™) for optimal performance. All 48 ports RJ45, 4 ports Giga RJ45 and shared 2 port of fiber optics are all runtime swappable.

IC3648 fits perfectly in SME, corporate edge network, small to mid-size business workgroup network. Built around a very sophisticated single-chip architecture, the IC3648 delivers true non-blocking, wire-speed performance on all ports with transport capability to deliver in realtime deliver bulk data from multimedia, file transfer, image and video information.

The IC3648 gives you flexible choices of either copper cable or fiber optical cable on ports G0 to G3 to uplink to core or backbone network. Using SFP MiniGBIC modules you can connect the network to a fiber optical network backbone, or extend the transmission distance with the use of single-mode or multi-mode Gigabit fiber cables.

The L2+ management feature tap into the IC3648's on-board Command Line Interface and web configuration to enable Professional IT and regular user to maximize the benefits of L2+ switch capability. With additional L2+ features with ACL on IP and MAC layer, IC3648 gives full control for LAN users to access the network and information.

### ■ Superior Performance

- 25 Gbps bandwidth non-blocking
- Rate Limiting
- Storm Control
- Link Aggregation (IEEE 802.3ad)
- QoS (IEEE 802.1p/ToS/DSCP)
- Rapid Spanning Tree Protocol (IEEE802.1w)
- Multiple Spanning Tree Protocol(IEEE802.1s)
- IGMP Snooping and IGMP Proxy
- Flow Control (IEEE 802.3x)
- Jumbo fram support(up to 9216 bytes)

### ■ Simple

- True Plug and Play
- Auto MDI/MDI-X Detection
- Auto-UpLink Sense
- Effortless Installation
- RJ45 and SFP MiniGBIC cabling

### ■ Smart Management

- Full L2+ Management CLI + Web (SSL/SSH)
- VLAN Tagging (IEEE802.11Q)
- Port mirroring
- Performance Monitor
- VLAN control
- GVRP management
- SNMP management
- 802.1X port based access control (MD5 Encryption)
- Radius Authentication
- Access list for IP and MAC address based Filtering

### ■ Safe Choice

- Best price performance Enterprise/SME Network Edge Switch
- Scalable and Manageable
- All runtime swappable
- Secure Long term Investment
- Upgradeable firmware

## TECHNICAL SPECIFICATIONS

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### Interfaces

- 48 RJ-45 connectors for 10/100 BASE-T
- 4 RJ45 Combo Ports for 1000 BASE T with 2 MiniGIBC/SFP Slots
- IEEE Auto Negotitation or manual configuration
- Reset button
- RS232 Console port

### Status Indicators

- Power Operating status of the unit
- 2 LEDs for port link/activity, speed

### Performance Specifications

- Wire-speed, Gigabit Ethernet Switch at 6.5Mpps
- Less than 20  $\mu$ s for 64-byte frames latency
- 4 Priority Queue with Weighted Round Robin(WRR) scheduling
- 8000 MAC address with auto-learning and aging
- Single-chip switch fabric non-blocking with on-board frame buffers

### Management Specifications

- IEEE 802.1x Standard Port Access Control
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1W Rapid Spanning Tree Protocol
- IEEE 802.1 S Multiple Spanning Tree Protocol
- IEEE 802.1Q Tag VLAN (Up to 64)
- Port-based QoS (options High/Normal)
- Port Trunking - Manual as per IEEE802.3ad Link Aggregation
- Port Mirroring
- System Log
- RFC 1157 SNMP v1, v2c
- RFC 1643 Ethernet Interface MIB
- RFC1493 Bridge MIB
- Web-based (IE, Mozilla, MacOS-Safari)
- Password access control
- Upgradeable firmware

### Standards Compliance

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet
- IEEE 802.3x full-duplex flow control
- IEEE 802.3z 1000BaseSX over 50 micron multi-mode fiber
- TCP/IP, CSMA/CA with ACK
- FCC Class A, CE Mark

### L2+ Management Specifications

- Command Line Interface/Web /Telenet
- GVRP VLAN Negotitation
- ACL for L2,L3 and L4
- SSI and SSH
- TACACS+ Client Authentication
- IGMP Snooping and IGMP Proxy
- DHCP Client and DHCP Relay

### Physical

- Dimensions (WxDxH): 430 x 250 x 44 (mm),16.9 x 7 x 1.7 (inch)
- Weight: 3.5 kg(6.625 lbs)

### Environmental Specifications

- Power: Internal, auto-switching,100 ~ 240 VAC, 50-60 Hz
- Operating Temperature: 0°C to 40°C (32°F to 104°F)
- Storage temperature: -20° to 70° C (-4° to 158°F)
- Relative Humidity: 10% to 90%, non-condensing
- Storage humidity: 95% maximum, non-condensing

### System Requirements

- Category 5, 6 Network cable
- Single Mode, Multimode fiber
- Window IE browser, Netscape, Mozilla, MacOS Safari.

### Modules

- Asante SFP1000SX
- Asante SFP1000LX
- Asante SFP1000LZ

### Security

- 802.11x RADIUS Authentication
- Management Access Control List

### Package Content

- 48-port + 4 Giga L2+ Switch(IC3624)
- Power cord
- Rack-mount kit
- Switch CD
- Warrant/Support Information card

### Warranty

- Asante Lifetime Warranty+

### Asante Service

- Free 24x7 email contact, Mon-Fri on Call.

## ORDERING INFORMATION

Model Name*	Description
IC3648	48-port + 4 Gigabit Combo L2+ Management Switch

+ This warranty is exclusive and is limited to the original end user purchaser with the original warranty card only. This warranty shall not apply to secondhand products or to products that have been subjected to abuse, misuse, dropping, abnormal electrical or environmental conditions, lightning, water, or any condition other than what can be considered normal use.



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IC3648 (99-00827)

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