



Cordoba Edge Gateway CPE

Compact Intel® Atom® C3000-Based Universal CPE for SD-WAN and SD-Branch Applications

Product Description

Silicom's Cordoba series based on the Intel® Atom® C3000 processor replaces traditional purpose-built CPE hardware with a wide array of wired and wireless WAN options for maximum site installation flexibility while still maintaining a small desktop footprint and optimum price point.



LAN connectivity includes dual-band 802.11ac Wi-Fi with internal antennae (802.11ax Wi-Fi 6 ready, coming soon), as well as 2.5 Gbps RJ-45 ports supporting external 802.11ac and 802.11ax access points.

WAN connectivity includes 1 Gbps auto media copper/fiber ports to align with site-specific needs, 10 Gbps ports supporting fiber Ethernet and xgsPON installations, and single or dual 4G LTE uplinks (5G ready, coming soon).

Multiple WAN and LAN options, combined with multicore Intel® CPU Virtualization Technology (Intel® VT), enable flexible and powerful SD-WAN and SD-Branch solutions. Optional Intel® QuickAssist Technology (Intel® QAT) acceleration offloads application software, making integrated security features practical while minimizing CPU footprint.



Use Cases:

- Fixed Wireless Access (FWA)
- Secure Access Service Edge (SASE)
- WAN Edge gateway

Key Features

CPU

- 2, 4, and 8 core Intel® Atom® C3000, optional QAT

Memory

- 1-channel, dual-rank DDR4 down, 2 to 32 GB total, optional ECC

Storage

- Onboard eMMC SSD 4 GB to 256 GB
- Optional NVMe SSD card*

WAN

- Up to 2x 4G LTE / 5G sub-6 radio cards, internal or external antennae, dual SIM slots
- 2x auto media detect 1 Gbps copper RJ-45/fiber SFP
- 2x 10 Gbps cages for PON or SFP+ transceivers*

LAN

- Optional 802.11ac Wi-Fi AP, internal antennae (802.11ax ready)
- 4x 2.5 Gbps RJ-45

Local access

- Cisco and mini-USB console (auto-detect)
- Optional Bluetooth for Zero-Touch Provisioning
- 2x USB 3.0 ports

Security

- TPM 2.0
- Optional Secure Boot
- Optional Hardware Root of Trust

Buttons

- Protruding button, default CPU power button (programmable)
- Recessed button, default CPU reset button (programmable)

LED

- 3x front panel tricolor RGB LED's, user configurable

Bootloader

- Embedded Blinkboot UEFI

Power input

- +12 VDC locking barrel jack, external desktop PSU w/regional AC cord options

Environmental

- 0 to +40C operating temperature

Mounting options

- Default desktop; rackmount, wall-mount accessory kits available

Dimensions

- 256 x 200 x 44 mm W x D x H (10.1 x 7.9 x 1.7 in)

* Optional NVMe SSD card occupies 1x radio card slot

* 10G PON/SFP+ available only on 4 and 8-core SKU's

Order Information

P/N	RMN	RTN	Options
80500-0214-G02-SL00A	IA3003	IA3003.02	<ul style="list-style-type: none"> • Intel® Atom® C3758, 8-core @ 2.2 GHz w/QAT • 16 GB memory w/ECC • 128 GB NVMe SSD • WAN: <ul style="list-style-type: none"> ○ 2x 1 Gbps auto media ○ 2x 10 Gbps SFP+ cages (can also be PON) • WWAN: <ul style="list-style-type: none"> ○ 2x M.2 radio card slots • LAN: <ul style="list-style-type: none"> ○ 4x 2.5 Gbps RJ-45 ○ 1x mPCIe Wi-Fi radio card slot • Preloaded Ubuntu Linux • Fan-cooled
80500-0214-G03-SL00A	IA3003	IA3003.03	<ul style="list-style-type: none"> • Intel® Atom® C3558, 4-core @ 2.2 GHz w/QAT • 8 GB memory • 64 GB eMMC SSD • WAN: <ul style="list-style-type: none"> ○ 2x 1 Gbps auto media ○ 2x 10 Gbps SFP+ cages (can also be PON) • WWAN: <ul style="list-style-type: none"> ○ 2x M.2 radio card slots • LAN: <ul style="list-style-type: none"> ○ 4x 2.5 Gbps RJ-45 ○ 1x mPCIe Wi-Fi radio card slot • Preloaded Ubuntu Linux • Fanless
80500-0214-G04-SL00A	IA3003	IA3003.04	<ul style="list-style-type: none"> • Intel® Atom® C3558, 4-core @ 2.2 GHz w/QAT • 8 GB memory • 64 GB eMMC SSD • WAN: <ul style="list-style-type: none"> ○ 2x 1 Gbps auto media ○ 2x 10 Gbps SFP+ cages (can also be PON) • WWAN: <ul style="list-style-type: none"> ○ 2x M.2 radio card slots • LAN: <ul style="list-style-type: none"> ○ 4x 2.5 Gbps RJ-45 ○ 1x M.2 Wi-Fi radio card slot • Preloaded Ubuntu Linux • Fanless
80500-0214-G05-SL00A	IA3003	IA3003.05	<ul style="list-style-type: none"> • Intel® Atom® C3338R, 2-core @ 1.8 GHz w/QAT • 4 GB memory • 32 GB eMMC SSD • WAN: <ul style="list-style-type: none"> ○ 2x 1 Gbps auto media • WWAN: <ul style="list-style-type: none"> ○ 2x M.2 radio card slots • LAN: <ul style="list-style-type: none"> ○ 4x 2.5 Gbps RJ-45 ○ 1x mPCIe Wi-Fi radio card slot • Preloaded Ubuntu Linux • Fanless
32800-0012-G01			Rackmount accessory kit
32800-0014-G01			Wall-mount accessory kit