



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 802.11ax Wi-Fi 6 with internal antennas, as well as 2.5 Gbps RJ-45 ports supporting external 802.11ax access points at full bandwidth.



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, single or dual 4G LTE uplinks, or 5G sub-6 uplink.

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

- Scalable performance with CPU options (2 – 16 cores) and memory options (4 – 32 GB)
- Native 2.5G copper ports and 10G fiber ports
- Native 1G copper/fiber combo ports (auto-detect media type)
- Support for single/dual 4G or single 5G cellular cards
- Support for Wi-Fi 6 DBDC AP card
- Support for high performance AI cards

Technical Information

Feature	Description
CPU	<ul style="list-style-type: none"> • 2, 4, and 8 core Intel® Atom® C3000, optional QAT
Memory	<ul style="list-style-type: none"> • 1-channel, dual-rank DDR4 down, 2 to 32 GB total, optional ECC
Storage	<ul style="list-style-type: none"> • Onboard eMMC SSD 8 GB to 256 GB • Optional NVMe SSD card*
WAN	<ul style="list-style-type: none"> • Optional up to 2x 4G LTE radio cards, external antennas, dual SIM slots per card • Optional 5G sub-6 radio card, external antennas, dual SIM slots • 2x auto media detect 1 Gbps copper RJ-45/fiber SFP ports • 2x 10 Gbps ports for PON or SFP+ transceivers*
LAN	<ul style="list-style-type: none"> • Optional 802.11ax Wi-Fi 6 AP, dual-band / dual-concurrent, internal antennas • 4x 2.5 Gbps RJ-45 ports
Local access	<ul style="list-style-type: none"> • Cisco RJ-45 and micro-USB console port (auto-detect) • 2x USB-A 3.0 host ports
Security	<ul style="list-style-type: none"> • TPM 2.0 • Optional Secure Boot • Optional Hardware Root of Trust
Buttons	<ul style="list-style-type: none"> • Protruding button, default CPU power button (programmable) • Recessed button, default CPU reset button (programmable)
LED	<ul style="list-style-type: none"> • 3x front panel tricolor RGB LED's, user configurable
Bootloader	<ul style="list-style-type: none"> • Embedded Blinkboot UEFI
Power input	<ul style="list-style-type: none"> • +12 VDC locking barrel jack, external desktop PSU, regional AC cord options
Environmental	<ul style="list-style-type: none"> • 0 to +40C operating temperature
Mounting options	<ul style="list-style-type: none"> • Default desktop feet; rackmount kit and wall-mount kit available
Dimensions	<ul style="list-style-type: none"> • 256 x 200 x 44 mm W x D x H (10.1 x 7.9 x 1.7 in)
Environmental:	<ul style="list-style-type: none"> • ESTI EN 300 019-2-1 V2.3.1 (2017-11) • ESTI EN 300 019-2-2 V2.4.1 (2017-11) • ESTI EN 300 019-2-3 V2.5.1 (2020-10) • IEC 60068-2-41:76 +A1:83 • TIA-968-A:2002 • ASTM D5276-19 • ASTM D5445-21
Acoustic:	<ul style="list-style-type: none"> • ETSI EN 300 753 V1.3.1
RoHS:	<ul style="list-style-type: none"> • EN 50581: 2012

EMC:	<ul style="list-style-type: none"> • FCC 47CFR part 15: 2021, subpart B, Class B ICES-003: 2020 Issue 7, Class B • ICES003 • CISPR 32: 2015 + A1(19), Class B • CISPR 35: 2016 • VCCI-CISPR 32: 2016, Class B • AS/NZS CISPR 32: 2015+A1(20), Class B • EN 55032: 2015 + A1(20) + A11(20), Class B • EN 55035: 2017 + A11(20) • EN 300 386: V2.1.1: 2016, equipment operating in locations other than telecommunication centers, Class B • EN 300 386: V1.6.1: 2012, equipment operating in locations other than telecommunication centers, Class B • EN 301 489-52: V1.2.1: 2021, Class B • EN 301 489-17: V1.2.1: 2020, Class B • EN 301 489-1: V2.2.3: 2019, Class B • EN 301 489-17: V3.2.4 (2020-09) Class B • EN 61000-3-3 : 2013 + A1(19)/A2:2021 • EN 61000-3-2 : 2019 +A1(21) • BS EN55032 • BS EN55035
Radio (Wi-Fi - AX210NGW):	<ul style="list-style-type: none"> • EN 300 440 V2.2.1 (2018-07) • EN 301 893 V2.1.1 (2017-05) • EN 300 328 V2.2.2 (2019-07) • AS/NZS 4268:2017 + Amendment 1_2021 • EN IEC 62311: 2020 • BS EN IEC 62311: 2020 • AS/NXS 2772.2 :2016_A1_2018
Safety:	<ul style="list-style-type: none"> • IEC 62368-1:2014 (Second Edition) • IEC 60950-1:2005 (Second Edition) + A1:2009 + A2:2013 • CSA C22.2 NO. 62368-1-14, 2nd Ed., Issue Date: 2014-12-01 • UL 62368-1, 2nd Ed., Issue Date: 2014-12-01
Mobile Carriers (LTE – Quectel EM06-A):	<ul style="list-style-type: none"> • PTCRB • AT&T
GMA (Global Market Access – Non-Radio):	<ul style="list-style-type: none"> • RCM (Australia) • PSE, VCCI (Japan) • BSMI(Taiwan) • UKCA • KC (S. Korea) • BIS (India)

* 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	Cooling	Options
80500-0214-G02-SL00A 8-core Base Model	IA3003	IA3003.02	Fan	<ul style="list-style-type: none"> • Intel® Atom® C3758, 8-core @ 2.2 GHz w/QAT • 16 GB memory with 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) • LAN: <ul style="list-style-type: none"> ○ 4x 2.5 Gbps RJ-45 • Preloaded Ubuntu Linux
80500-0214-G02-SL01A 8-core LTE / Wi-Fi 6	IA3003	IA3003.02A	Fan	<ul style="list-style-type: none"> • Intel® Atom® C3758, 8-core @ 2.2 GHz w/QAT • 16 GB memory with 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: 1x 4G LTE Cat12 radio • LAN: 4x 2.5 Gbps RJ-45 • WLAN: 1x Wi-Fi 6 AP radio (DB/DC) • Preloaded Ubuntu Linux
80500-0214-G03-SL00A 4-core Base Model	IA3003	IA3003.03	Fanless	<ul style="list-style-type: none"> • Intel® Atom® C3558, 4-core @ 2.2 GHz w/QAT • 8 GB memory with ECC • 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) • LAN: 4x 2.5 Gbps RJ-45 • Preloaded Ubuntu Linux
80500-0214-G03-SL01A 4-core LTE / Wi-Fi 6	IA3003	IA3003.03A	Fan	<ul style="list-style-type: none"> • Intel® Atom® C3558, 4-core @ 2.2 GHz w/QAT • 8 GB memory with ECC • 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: 1x 4G LTE Cat12 radio • LAN: 4x 2.5 Gbps RJ-45 • WLAN: 1x Wi-Fi 6 AP radio (DB/DC) • Preloaded Ubuntu Linux
80500-0214-G05-SL00A 2-core Base Model	IA3003	IA3003.05	Fanless	<ul style="list-style-type: none"> • Rackmount Intel® Atom® C3338R, 2-core @ 1.8 GHz w/QAT • 4 GB memory with ECC • 32 GB eMMC SSD • WAN: 2x 1 Gbps auto media • LAN: 4x 2.5 Gbps RJ-45 • Preloaded Ubuntu Linuxkit
80500-0223-G00				<ul style="list-style-type: none"> • Rackmount accessory kit
32800-0014-G01				<ul style="list-style-type: none"> • Wall-mount accessory kit