

# DFA 1163 Series

Desktop Professional uCPE for Wireless Broadband Applications  
w/ Intel Atom® C3000R Processor

NEXCPE™



## Main Features

- Intel Atom® C3000R processor
- 2 x DDR4 ECC RDIMM/UDIMM
- 1 x 10GbE SFP+ port
- 12 x RJ45 ports (with optional PoE+ support)
- Supports Wi-Fi 6
- Supports 4G LTE and 5G FR1/SA/NSA modes
- Supports 5G FR1 and FR2 (R15, DFA 1163M)
- Supports 5G FR1 and FR2 (R16, DFA 1163Q)

## Product Overview

Based on the 5G FWA (Fixed Wireless Access) technology, DFA 1163 Series is a compact desktop professional uCPE designed for wireless broadband applications. It features Wi-Fi 6, 5G FR1/FR2 and PoE+ for flexible connectivity. DFA 1163 Series is perfect for 5G security gateway, edge computing, SD-WAN, VPN, and routing deployment at the enterprise edge.

## Specifications

### Main Board

- Intel Atom® C3000R processor
  - Intel Atom® C3558R processor, BGA type, 4 cores/ 2.4 GHz for DFA 1163
  - Intel Atom® C3758R processor, BGA type, 8 cores/ 2.4 GHz for DFA 1163A
  - Intel Atom® C3758R processor, BGA type, 8 cores/ 2.4 GHz for DFA 1163M
- TPM 2.0 onboard

### Main Memory

- 2x DDR4 2400 ECC RDIMM/UDIMM, up to 64GB

### Storage

- 1 x 8G onboard eMMC
- 1 x PCIe3 x4 M.2 2280 Key M SSD

### Interface External

- Button: power and reset
- LAN ports LED indicators: active/link speed
- 8 x LED indicators: power/PoE/MGMT/SSD/WLAN/5G LTE
- 1 x USB 3.0 connector combined with RJ45 console port
- 1 x USB 3.0 connector combined with RJ45 management port
- 1 x SIM slot (for dual nano SIM card)
- 2 x 2.5GbE RJ45 NIC ports (with optional PoE+ support)
- 2 x 1GbE RJ45 NIC ports (with optional PoE+ support)
- 8 x 1GbE RJ45 switch ports (with optional PoE+ support)

- 1 x 1GbE SFP port
- 1 x 10GbE SFP+ port
- 2 x Fixed smart fans
- 2 x Power inlets (1 x 12V, 1 x 54V)
- 6 x Antenna holes (4 x for 4G LTE/5G antennas, 2 x for Wi-Fi 6 antennas)

### Interface-Internal

- 1 x mini-PCIe slot for Wi-Fi 6 module
- 1 x M.2 3042/3052 Key B slot for 4G LTE/5G module

### Power

- 90W 12V AC power adapter
- 310W 54V PoE power adapter (optional)

### Dimension and Weight

- Chassis dimension (mm): 253.5mm x 226mm x 44mm (W x D x H)
- Package dimension (mm): 380mm x 320mm x 232mm (W x D x H)
- Without package: 3.81 kg
- With package: 4.98 kg

### Environment

- Operating temperature: 0°C~40°C
- Storage temperature: -20°C~80°C
- Relative humidity: 10%~90% non-condensing

### Certification

- CE/FCC class B

## Ordering Information

- **DFA 1163 (P/N: 10FA0116300X0)**  
Intel Atom® C3558R processor, BGA type 4 cores/2.4 GHz,  
2 x DDR4-2400 DIMM ECC memory, max. 64 GB
- **DFA 1163A (P/N: 10FA0116301X0)**  
Intel Atom® C3758R processor, BGA type 8 cores/2.4 GHz,  
2 x DDR4-2400 DIMM ECC memory, max. 64 GB
- **DFA 1163M (P/N: 10FA0116302X0)**  
Intel Atom® C3758R processor, BGA type 8 cores/2.4 GHz,  
2 x DDR4-2400 DIMM ECC memory, max. 64 GB, w/ 5G R15 (FR1 and  
FR2) support
- **DFA 1163Q (P/N: 10FA0116303X0)**  
Intel Atom® C3758R processor, BGA type 8 cores/2.4 GHz,  
2 x DDR4-2400 DIMM ECC memory, max. 64 GB, w/ 5G R16 (FR1 and  
FR2) support