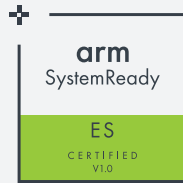


# DTA 1376/1376A

Arm-Based Desktop uCPE for Wireless Broadband Applications  
w/ NXP® Layerscape® LS1046A SoC Processor



## Main Features

- NXP® Layerscape® LS1046A SoC processor, BGA type
- 1 x DDR4-2133 SO-DIMM ECC socket, up to 16GB
- 1 x M.2 2242 NVMe SSD
- 7 x 1GbE RJ45 ports
- 1 x M.2 3042/3052 for 4G LTE/5G (FR1) module
- 1 x mini-PCIe slot for Wi-Fi 5 module
- PoE++ PD (DTA 1376A)

## Product Overview

DTA 1376 is a cost-effective Arm-based uCPE in compact design with seven 1GbE copper ports and additional support for wireless connectivity. Powered by NXP® Layerscape® LS1046A SoC processor, with quad 64-bit Arm® Cortex®-A72 cores, DTA 1376 supports DPAA (data path acceleration architecture) to provide a set of networking acceleration to small and medium enterprises. DTA 1376A SKU operates as PoE PD (powered device) to extend from indoor to semi-outdoor usage where power outlet is not accessible.

## Specifications

### Main Board

- NXP® Layerscape® LS1046A SoC processor, BGA type, 4 Cortex-A72 cores, 1.8GHz
- Supports DPAA

### Memory

- 1 x DDR4 2133 SO-DIMM ECC socket, up to 16GB

### Storage

- 1 x SPI NOR Flash 64MB for U-Boot
- 1 x M.2 2242 Key M, supports NVMe SSD with PCIe Gen3 x2
- 1 x Micro SD slot (optional)

### LAN Features

- 7 x 1GbE RJ45 ports

### Interface External

- SW1/SW2/SW3/power LEDs
- Ethernet LED: active/link speed
- 2 x USB 3.0
- 1 x Nano sim slot
- 1 x DC-in 12VDC
- 1 x Power button
- 1 x RJ45 console port
- 1 x Reset button
- 6 x SMA connectors (sides: 4 x for 4G LTE/5G antennas, back: 2 x for Wi-Fi 5 antennas)
- 7 x 1GbE RJ45 ports

### Interface internal

- 1x mini-PCIe for Wi-Fi 5 module
- 1x M.2 3042/3052 for 4G LTE/5G FR1 module
- 1x M.2 2242 Key M for NVMe SSD
- 1x Micro SD slot (optional)

### Power

- 1 x 40W 12V AC power adapter
- 1 x RJ45 port for PoE++ PD (DTA 1376A)

### Dimension and Weight

- Chassis dimension (mm): 225mm x 150mm x 44mm (W x D x H)
- Package dimension (mm): 343 x 258 x 212 (W x D x H)
- Without packing: 1.5kg
- With packing: 2.5kg

### Environment

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

### Certification

- CE/FCC class B
- LVD

### Software Development Kit

- NXP® Layerscape® SDK 20.04-NEXCOM DTA 1376 revision

## Ordering Information

- **DTA 1376 (P/N: 10TA0137600X0)**  
NXP® Layerscape® LS1046A processor, SoC, BGA type, 4 Cortex-A72 cores, 1.8GHz, 7 x 1GbE RJ45 ports
- **DTA 1376A (P/N: TBC)**  
NXP® Layerscape® LS1046A processor, SoC, BGA type, 4 Cortex-A72 cores, 1.8GHz, 7 x 1GbE RJ45 ports, with PoE++ PD function supported

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Desktop Platform

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We reserve the right to change specifications and product descriptions at any time without prior notice.

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