Table 3-9 Technical Specifications of 10GE Ethernet Uplink Cards

Item		Specification
Power consumption	XUTQ	20 W (static), 22 W (maximums), 20 W (typical)
	XUVQ	23 W (static), 25 W (maximums), 23 W (typical)
Dimensions		197.75 mm × 25 mm × 225 mm (Height × Width × Depth)
Weight	XUTQ	0.514 kg
	XUVQ	0.535 kg

3.2.2 10GE/GE Ethernet Uplink Cards

Function

The ZXA10 C300/C350 supports the following 10GE/GE Ethernet uplink cards:

- HUTQ: 2-port 10GE and 2-port GE optical interface Ethernet uplink card
- HUVQ: 2-port 10GE and 2-port GE optical interface Ethernet uplink card, supports SynE and IEEE 1588 TC function.

Panel

Figure 3-11 and Figure 3-12 show the 10GE/GE Ethernet uplink card panels.

Figure 3-11 HUTQ Panel

Figure 3-12 HUVQ Panel

Indicators

Table 3-10 describes the indicators of the 10GE/GE Ethernet uplink cards.

Table 3-10 Indicator Description for 10GE/GE Ethernet Uplink Cards

Indicator	Status	Description
RUN	OFF	The card is not powered ON.
	Green LED flashes slowly (1 Hz).	The card works properly (INSERVICE).
	Green LED flashes quickly (2 Hz).	● The card is in configuration process. ● The card is in BOOT writing process. Do Not pull out the card.
	Green LED is ON.	● The card is in version starting process. ● The card is in BOOTROM program. ● The card is in PLD upgrading process.
	Red LED is ON.	The card is seriously faulty, such as hardware fault.
	Yellow LED flashes slowly (1 Hz).	The card type is inconsistent with configuration (TYPEMISMATCH).
XG1/XG2/GE 1/GE2	OFF	The link is down.
	Green LED is ON.	The link is up, but no data transmission.
	Green LED flashes.	The interface is transmitting and receiving data.

Interfaces

The 10GE/GE Ethernet uplink cards provide two 10GE optical interfaces and two GE optical interfaces.

Principle Diagram

Figure 3-13 shows the principle diagram of the 10GE/GE Ethernet uplink cards.

Figure 3-13 Principle Diagram of 10GE/GE Ethernet Uplink Cards

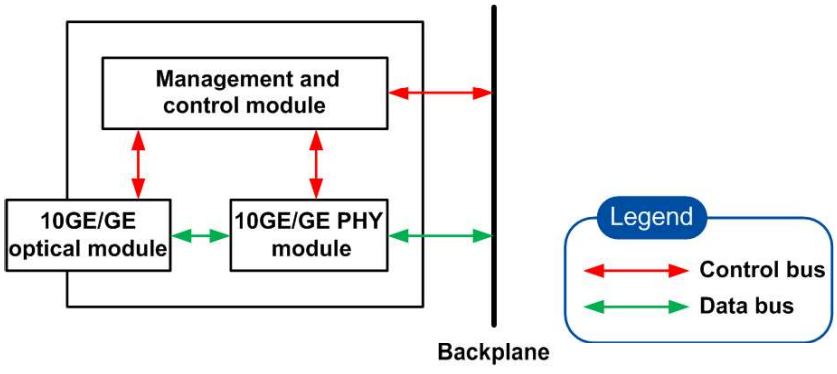

Table 3-11 describes the module functions of the 10GE/GE Ethernet uplink cards.

Table 3-11 Module Function of 10GE/GE Ethernet Uplink Cards

Module	Function
Management and control module	Implements card configuration, traffic management and optical module management, and status detection of optical module.
10GE PHY module/GE PHY module	Implements signal connection for switching chip interface and serial Ethernet interface, coding in physical layer, clock recovery and frequency doubling. Implement time input and Ethernet frequency synchronization (only available for HUVQ).
10GE optical module/GE optical module	Provides 10GE/GE optical interface.

Technical Specifications

Table 3-12 lists technical specifications of the 10GE/GE Ethernet uplink cards.

Table 3-12 Technical Specifications of 10GE/GE Ethernet Uplink Cards

Item	Specification
Power consumption	13 W (static), 15 W (maximums), 13 W (typical)
Dimensions	197.75 mm × 25 mm × 225 mm (Height × Width × Depth)
Weight	HUTQ: 0.420 kg HUVQ: 0.432 kg

3.2.3 GE Ethernet Uplink Cards

Function

The ZXA10 C300/C350 supports the following GE Ethernet uplink cards:

- GUFQ: 4-port optical interface Ethernet uplink card

  Four optical interfaces can be GE optical interface (a GFSQ daughter-card needs to be configured), or FE optical interface (an FFSQ daughter-card needs to be configured).

- GUSQ: 2-port optical and 2-port electrical interface Ethernet uplink card

  → Two optical interfaces can be GE optical interface (with a GFSD daughter-card), or FE optical interface (with an FFSD daughter-card).

  → Two electrical interfaces are 10 M/100 M/1000 M adaptive electrical interfaces (with a GTSD daughter-card).

Panel

Figure 3-14 and Figure 3-15 show the GE Ethernet uplink card panels.