

Product Specification

Product Name	Lite Carrier Board	Full-Function Evaluation Carrier Board
Model Number	DFR1142	DFR1141
Power Input	<ul style="list-style-type: none"> • 1x USB Type-C: 15V (Max 3A) • 1x DC 5.5x2.5mm: 12~20V (Max 10A) 	<ul style="list-style-type: none"> • 1x DC 5.5x2.5mm: 9~20V (Max 10A) • 1x DC Power 5.08mm Screw terminal plug: 9~20V (Max 15A)
Expansion Slots	<ul style="list-style-type: none"> • 1x PCIe 3.0 x4 slot (only available when using 12V power supply) • 1x M.2 M Key 2230 (PCIe 3.0 x1) • 1x M.2 E Key 2230 (PCIe 3.0 x1, USB2.0) 	<ul style="list-style-type: none"> • 1x PCIe 3.0 x1 slot • 1x PCIe 3.0 x4 slot (signal sharing with the SATA interface) • 1x M.2 E Key slot: Supports 2230 Type wireless network card (PCIe 3.0 x1, USB 2.0; signal sharing with the Ethernet port 2 (RJ45_2)) • 1x M.2 B Key slot: Supports 3042/3052 Type 4G/5G network card (USB 3.0, USB 2.0)
SATA Interface	None	<ul style="list-style-type: none"> • 2x SATA 6Gb/s interfaces • (signal sharing with the PCIe 3.0 x4 interface)
Ethernet Interface	<ul style="list-style-type: none"> • 1x Gigabit Ethernet 	<ul style="list-style-type: none"> • 2x Intel i225-V 2.5GbE Ethernet interfaces • (Ethernet port 2(RJ45_2) shares signal with the M.2 E Key interface)
Audio Interface	None	Realtek ALC269 HD audio codec
External Interfaces	<ul style="list-style-type: none"> • 2x USB 3.2 10Gbps • 2x USB 2.0 • 1x HDMI 2.0 	<ul style="list-style-type: none"> • 1x 3.5mm microphone interface • 1x 3.5mm headphone interface • 2x USB 2.0 • 4x USB 3.0 • 1x USB Type-C(supports USB 2.0, USB 3.0, DisplayPort) • 1x RS232 • 1x SIM card slot • 2x HDMI 2.0 interfaces
Pins/Jumpers/Buttons	<ul style="list-style-type: none"> • 1x RTC battery socket (CR1220 3V) • 1x CPU fan socket • 3x Gravity-4P UART • 4x Gravity-4P I2C 	<ul style="list-style-type: none"> • 1x CPU fan interface (CPU_FAN) • 1x System fan interface (SYS_FAN) • 1x I2S header (I2S1) • 1x TPM header (TPM) • 1x eSPI header (ESPI_CON) • 1x Auto power-on jumper (AUTO_PWR) • 1x Temperature sensor header (TMP) • 1x USB 2.0 header (F_USB1) • 1x Front panel header (F_PANEL1) • 1x UART and I2C header (UART_I2C_1) • 1x SoC GPIO header (GPIO_1) • 1x Speaker interface (SPEAKER) • 1x HD Audio header (F_AUDIO) • 1x Function setting DIP switches (ID_SW) • 1x USB header power control jumper (F_USB_PWR) • 1x Front USB power control jumper (R_USB_PWR) • 1x PoE power header (POE_IN) • 1x Hard disk power interface (HDD_PWR1) • 1x Power input header (POE_OUT)
Dimension	3.5 inches, 146mm×102mm	ITX 170 x 170mm