

# Quick Guide

| Accessory Category | Module            | Description                                                                       | Compatible Model                                                  |
|--------------------|-------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Display Module     | DVI-05 <b>NEW</b> | Supports DVI monitor                                                              | EPIA-M700                                                         |
|                    | DVI-04            | Supports DVI monitor                                                              | EPIA SN                                                           |
|                    | DVI-03            | Supports DVI monitor                                                              | EPIA EK, EN                                                       |
|                    | DVI-01            | Supports DVI monitor                                                              | EPIA PE, M                                                        |
|                    | LVDS-08           | Supports 18-bit or 24-bit LCD panel display                                       | EPIA NX, SN                                                       |
|                    | LVDS-07           | Supports 18-bit or 24-bit LCD panel display                                       | EPIA EK, EN                                                       |
|                    | LVDS-05           | Supports 18-bit or 24-bit LCD panel display                                       | EPIA PE, M                                                        |
| Power Board        | PWB-M120          | DC-DC power board:<br>12-19 V input/ 120 W output                                 | EPIA Mini-ITX C7®/Luke Series, VB series                          |
|                    | PWB-N550          | DC-DC power board:<br>12 V input/ 60 W output                                     | EPIA PX, NX, NR                                                   |
| Expansion Module   | EXT-PCI           | One to two PCI riser card                                                         | EPIA Mini-ITX Series, VB7007, VB7001                              |
|                    | PCIE-01           | One PCIe riser card                                                               | EPIA SN, VB8001, VB7002                                           |
|                    | LPC-01            | Expansion module for four RS232 ports (5 V or 12 V)                               | All EPIA boards with LPC pin header,<br>VB8001, VB7002            |
|                    | LPC-02            | Expansion module for two RS232 ports and two<br>RS232/422/485 ports (5 V or 12 V) | All EPIA boards with LPC pin header,<br>VB8001, VB7002            |
|                    | PUSB-01           | Expansion module for four USB PlusPower<br>connectors                             | All EPIA boards with USB pin header,<br>segment series, VB series |
| WLAN Module        | WLAN Mini PCI     | Supports IEEE 802.11b/g                                                           | EPIA-N700, NX, NR, NAB7500, NAS7800-<br>15LST, VB8001, VB7002     |
|                    | WLAN USB module   | Supports IEEE 802.11b/g                                                           | All EPIA boards, segment series, VB series                        |

\* PX-O (I/O for EPIA PX), PX-T (TV for EPIA PX), PX-TC (TV-out and video capture) and MPC1-O1 (Mini PCI for EPIA NX, NR, SN) are ordered by request.

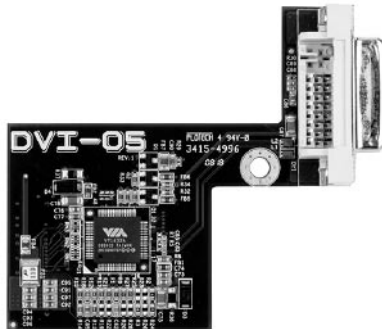
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Display Module **NEW**

# DVI-05

DVI Monitor Support

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## Features

- Supports DVI monitor
- Transmitter Chip: VIA VT1632A
- I/O interface: 1 x DVI connector
- Compatible Model: EPIA-M700
- Size: 72.8 mm x 69 mm

## Ordering Information

| Model  | Description        | Compatible Model |
|--------|--------------------|------------------|
| DVI-05 | DVI monitor module | EPIA-M700        |

## Packing List

- 2 x Screws
- 1 x Bolt
- 1 x Washer

\* This Product is only available for special projects. Please contact your regional sales representative for more details.

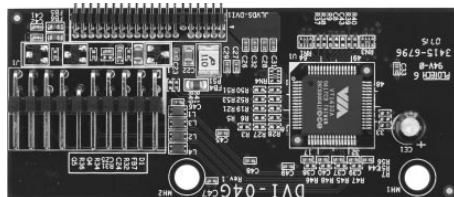
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Display Module

# DVI-04

DVI Monitor Support

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## Features

- Supports DVI monitor
- Transmitter chip: VIA VT1632A
- Compatible model: EPIA SN
- Size: 75 mm x 30 mm

## Optional



## Ordering Information

| Model    | Description | Compatible Model |
|----------|-------------|------------------|
| DVI-04CG | 40-pin      | EPIA SN          |

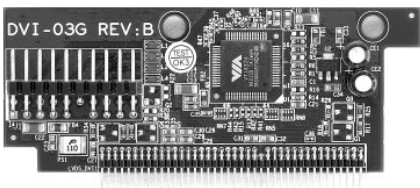
## Packing List

- 1 x DVI-04 module
- 1 x DVI cable

Display Module

# DVI-03

DVI Monitor Support



Features

- Supports DVI monitor
- Transmitter chip: VIA VT1632A
- Compatible model: EPIA EK, EN
- Size: 80 mm x 35 mm

Optional



DVI Cable



Metal Holder

Ordering Information

| Module      | Description                      | Compatible Model |
|-------------|----------------------------------|------------------|
| DVI-03G-80  | 80-pin                           | EPIA EN          |
| DVI-03CG-80 | 80-pin, with corresponding cable | EPIA EN          |
| DVI-03G-60  | 60-pin                           | EPIA EK          |
| DVI-03CG-60 | 60-pin, with corresponding cable | EPIA EK          |

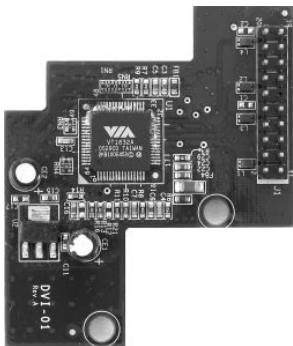
Packing List

- 1 x DVI-03 module
- 2 x Hexagonal bolt (for EPIA EN)
- 1 x DVI cable (for specific SKU)
- 2 x Screws
- 1 x Metal holder

Display Module

# DVI-01

DVI Monitor Support



Features

- Supports DVI monitor
- Transmitter chip: VIA VT1632A
- Compatible model: EPIA PE, M
- Size: 58 mm x 48 mm

Optional



DVI Cable

Ordering Information

| Model    | Description              | Compatible Model |
|----------|--------------------------|------------------|
| DVI-01G  | DVI monitor module       | EPIA PE, M       |
| DVI-01CG | With corresponding cable | EPIA PE, M       |

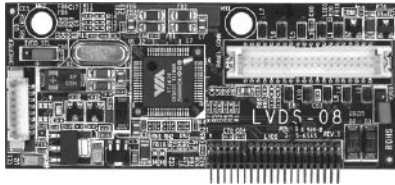
Packing List

- 1 x DVI-01 module
- 2 x Screws
- 2 x Washers
- 1 x DVI cable (for specific SKU)

## Display Module

# LVDS-08

LCD Panel Display Support



## Features

- Supports 18-bit and 24-bit LCD panel display
- Transmitter chip: VIA VT1636
- Both single and dual channel support, with resolutions up to 1600 x 1200
- Compatible model: EPIA NX, SN
- Size: 75 mm x 30 mm

## Ordering Information

| Model    | Description | Compatible Model |
|----------|-------------|------------------|
| LVDS-08G | 18/24-bit   | EPIA NX, SN      |

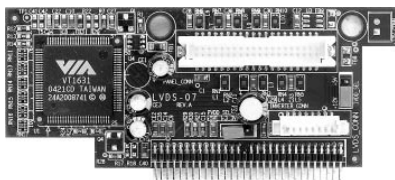
## Packing List

- 1 x LVDS-08 module
- 2 x Screws

## Display Module

# LVDS-07

LCD Panel Display Support



## Features

- Supports 18-bit or 24-bit LCD panel display, selectable by SKU
- Transmitter Chip: VIA VT1631L
- Both single and dual channel support, with resolutions up to 1600 x 1200
- Compatible model: EPIA EK, EN
- Size: 78 mm x 32 mm

## Ordering Information

| Model             | Description | Compatible Model |
|-------------------|-------------|------------------|
| LVDS-07G / 18-bit | 18-bit      | EPIA EK, EN      |
| LVDS-07G / 24-bit | 24-bit      | EPIA EK, EN      |

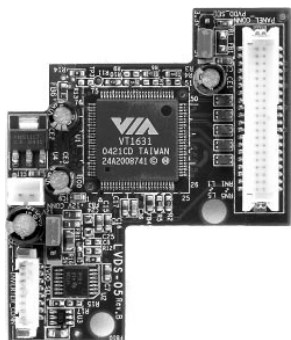
## Packing List

- 1 x LVDS-07 module
- 2 x Screws

Display Module

# LVDS-05

LCD Panel Display Support



Features

- Supports 18-bit or 24-bit LCD panel display
- Transmitter chip: VIA VT1631
- Single channel support, with resolutions up to 1024 x 768
- Compatible model: EPIA PE, M
- Size: 58 mm x 48 mm

Ordering Information

| Model             | Description | Compatible Model |
|-------------------|-------------|------------------|
| LVDS-05G / 18-bit | 18-bit      | EPIA PE, M       |
| LVDS-05G / 24-bit | 24-bit      | EPIA PE, M       |

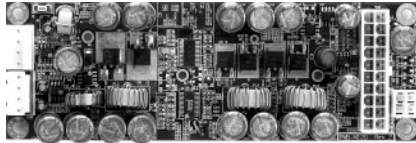
Packing List

|                           |
|---------------------------|
| 1 x LVDS-05 module        |
| 2 x Screws                |
| 2 x Washers               |
| 1 x Power cable for panel |

## Power Board

# PWB-M120

DC to DC Power Board



## Features

- **Protection**
  - Output Voltage Protection (Over Voltage Protection) OVP
  - Output Current Protection (Output Short Protection)
  - Output Voltage Protection (Under Voltage Protection) UVP
- **Operating Temperature:** 0 ~ 50°C
- **Operating Humidity:** 0% ~ 95% (relative humidity; non-condensing)
- **Form Factor:**
  - 4-layer
  - 150 mm x 51 mm
- **Compatible Model:** EPIA Mini-ITX C7\*/Luke Series, VB series
- **DC Input**

| Input   | Minimum       | Nominal        | Maximum        |
|---------|---------------|----------------|----------------|
| Voltage | 11.4 V~18.5 V | 12 V~19 V      | 12.6 V~19.95 V |
| Current |               | 6.84 A~10.83 A |                |

- **DC Output Voltage**

| Output     | Minimum | Nominal | Maximum | Maximum Combined Power |
|------------|---------|---------|---------|------------------------|
| +5 V_SB    | 4.75 V  | 5 V     | 5.25 V  | 122.2 W                |
| +3.3 V     | 3.14 V  | 3.3 V   | 3.47 V  |                        |
| +5 V       | 4.75 V  | 5 V     | 5.25 V  |                        |
| +12 V      | 11.4 V  | 12 V    | 12.6 V  |                        |
| Power Good | 4.75 V  | 5 V     | 5.25 V  |                        |

- **DC Output Current**

| +5 V_SB | +3.3 V | +5 V | +12 V | -12 V  | Power Good | Maximum Combined Power |
|---------|--------|------|-------|--------|------------|------------------------|
| 2 A     | 6 A    | 6 A  | 5 A   | 200 mA | 0.1 A      | 122.2 W                |

## Ordering Information

| Model     | Description                       | Compatible Model                             |
|-----------|-----------------------------------|----------------------------------------------|
| PWB-M120G | DC-to-DC power board for Mini-ITX | EPIA Mini-ITX C7*/<br>Luke series, VB series |

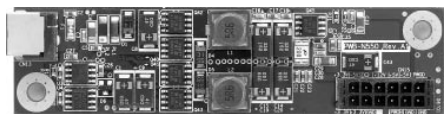
## Packing List

|                                                |
|------------------------------------------------|
| 1 x PWB-M120 power board                       |
| 1 x DC-in module                               |
| 1 x DC input power cable                       |
| 1 x 20-pin power cable with IDE/FDD connectors |

Power Board

# PWB-N550

DC to DC Power Board



## Features

- **Protection**  
Input Voltage Protection (Over Voltage Protection)  
Output Voltage Protection (Over Voltage Protection) OVP  
Output Current Protection (Output Short Protection)  
Output Voltage Protection (Under Voltage Protection) UVP
- **Operating Temperature:** 0~50°C
- **Operating Humidity:** 0% ~ 95% (relative humidity; non-condensing)
- **Form Factor:**  
4-layer  
100 mm x 25 mm
- **Compatible Model:** EPIA PX, NX, NR
- **DC Input**

| Input   | Minimum | Nominal | Maximum |
|---------|---------|---------|---------|
| Voltage | 11.4 V  | 12 V    | 12.6 V  |
| Current |         | 5 A     |         |

- **DC Output Voltage**

| Output     | Minimum | Nominal | Maximum | Maximum Combined Power |
|------------|---------|---------|---------|------------------------|
| +5 V_SB    | 4.75 V  | 5 V     | 5.25 V  | 61.2 W                 |
| +3.3 V     | 3.14 V  | 3.3 V   | 3.47 V  |                        |
| +5 V       | 4.75 V  | 5 V     | 5.25 V  |                        |
| +12 V      | 11.4 V  | 12 V    | 12.6 V  |                        |
| Power Good | 4.75 V  | 5 V     | 5.25 V  |                        |

- **DC Output Current**

| +5 V_SB | +3.3 V | +5 V | +12 V | Power Good | Maximum Combined Power |
|---------|--------|------|-------|------------|------------------------|
| 0.8 A   | 4 A    | 4 A  | 2 A   | -          | 61.2 W                 |

## Ordering Information

| Model      | Description                       | Compatible Model |
|------------|-----------------------------------|------------------|
| PWB-N550G  | DC-to-DC power board for Nano-ITX | EPIA NX, NR      |
| PWB-N550PG | DC-to-DC power board for Pico-ITX | EPIA PX          |

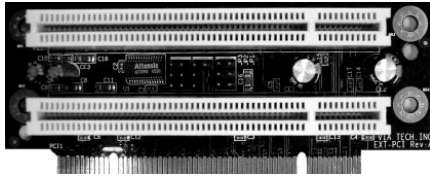
## Packing List

- 1 x PWB-N550 power board
- 1 x 12-pin power cable with IDE/FDD connectors for Nano-ITX  
(or 1 x 12-pin power cable for Pico-ITX)

## Expansion Module

# EXT-PCI

One to Two PCI Riser Card



## Features

- Supports one to two PCI riser card
- Compatible model: EPIA Mini-ITX series, VB7007, VB7001
- Size: 112 mm x 46 mm

## Ordering Information

| Model    | Description            | Compatible Model                     |
|----------|------------------------|--------------------------------------|
| EXT-PCIG | Supports two PCI slots | EPIA Mini-ITX series, VB7007, VB7001 |

## Packing List

1 x EXT-PCI module

## Expansion Module

# PCIE-01

One PCIe Riser Card



## Features

- PCIe riser card to support one 16-lane PCIe slot
- Compatible model: EPIA SN, VB8001, VB7002
- Size: 120 mm x 82 mm

## Ordering Information

| Model   | Description                    | Compatible Model        |
|---------|--------------------------------|-------------------------|
| PCIE-01 | PCIe x 16 horizontal converter | EPIA SN, VB8001, VB7002 |

## Packing List

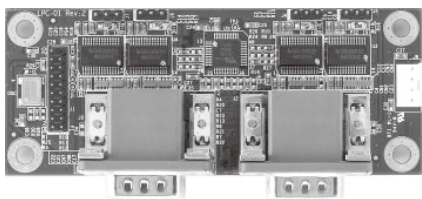
1 x PCIE-01 module



Expansion Module

LPC-01

Expansion Module for Four RS232 Ports  
(5 V or 12 V)



Features

- Expansion module for four COM ports (5 V or 12 V)
- Compatible model: All EPIA boards with LPC pin header, VB8001, VB7002
- Size: 100 mm x 40 mm

Optional



Ordering Information

| Model    | Description                   | Compatible Model                                    |
|----------|-------------------------------|-----------------------------------------------------|
| LPC-01G  | Supports four RS232 COM ports | All EPIA boards with LPC pin header, VB8001, VB7002 |
| LPC-01CG | With corresponding cable      | All EPIA boards with LPC pin header, VB8001, VB7002 |

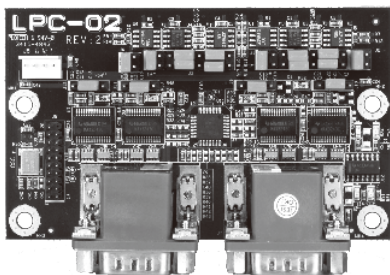
Packing List

- |                                  |
|----------------------------------|
| 1 x LPC-01 module                |
| 1 x LPC cable (For specific SKU) |

Expansion Module

LPC-02

Expansion Module for Two RS232 Ports and Two RS232/422/485 Ports (5 V or 12 V)



Features

- Expansion module for four COM ports (5 V or 12 V)
- COM1 & COM2 are selectable for RS232/422/485, and COM3 & COM4 are dedicated for RS232
- Compatible model: All EPIA boards with LPC pin header, VB8001, VB7002
- Size: 100 mm x 60 mm

Ordering Information

| Model    | Description                          | Compatible Model                                    |
|----------|--------------------------------------|-----------------------------------------------------|
| LPC-02G  | Supports RS232/RS422/RS485 COM ports | All EPIA boards with LPC pin header, VB8001, VB7002 |
| LPC-02CG | With corresponding cable             | All EPIA boards with LPC pin header, VB8001, VB7002 |

Packing List

- |                                  |
|----------------------------------|
| 1 x LPC-02 module                |
| 1 x LPC cable (for specific SKU) |

Expansion Module

PUSB-01

Expansion Module for Four USB PlusPower Connectors



Features

- Output: Four USB PlusPower connectors with 5 V power supply
- Input: Two USB 2.0 pin headers with 2.54 mm pitch
- Supports Over Current Protection (OCP)
- Compatible model: All EPIA boards with USB pin header, segment series, VB series
- Size: 95 mm x 40 mm

Ordering Information

| Model      | Description                                  | Compatible Model                                               |
|------------|----------------------------------------------|----------------------------------------------------------------|
| PUSB-01C3G | Supports four USB PlusPower connectors (5 V) | All EPIA boards with USB pin header, segment series, VB series |

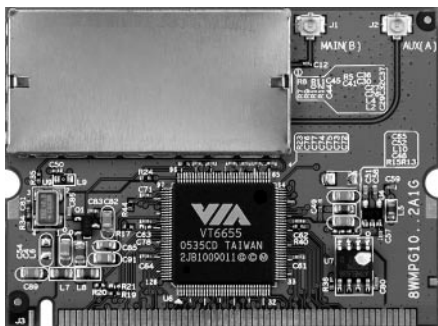
Packing List

|                                            |
|--------------------------------------------|
| 1 x PUSB-01 module                         |
| 1 x USB cable with 2.54 mm pitch connector |
| 1 x USB cable with 2.0 mm pitch connector  |

WLAN Module

# WLAN Mini PCI

IEEE 802.11 b/g Standards



- Features**
- Supports 802.11 b/g standards
  - WLAN controller: VT6655
  - Compatible model: EPIA-N700, NX, NR, NAB7500, NAS7800-15LST, VB8001, VB7002
  - Size: 60 mm x 45 mm

**Ordering Information**

| Model       | Description         | Compatible Model                                          |
|-------------|---------------------|-----------------------------------------------------------|
| VT6655GMA00 | Type IIIB connector | EPIA-N700, NX, NR, NAB7500, NAS7800-15LST, VB8001, VB7002 |

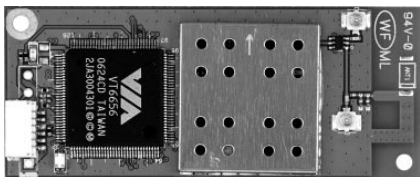
**Packing List**

- 1 x WLAN Mini PCI module

WLAN Module

# WLAN USB Module

IEEE 802.11 b/g Standards



- Features**
- Supports 802.11 b/g standards
  - WLAN controller: VT6656
  - Compatible model: All EPIA boards, segment series, VB series
  - Size: 25 mm x 60 mm

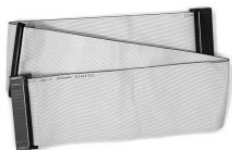
**Ordering Information**

| Model        | Description                     | Compatible Model                           |
|--------------|---------------------------------|--------------------------------------------|
| VNT6656G6A40 | 5 V, SMT connector 1.0 mm pitch | All EPIA boards, segment series, VB series |

**Packing List**

- 1 x WLAN USB module

## Appendix- Items in packing list



### ATA-66/100/133 IDE Ribbon Cable

- Compatible model:  
EPIA PX, NX, NR, M700,  
SN, EX, EK, EN, CN, LT,  
LN, PE, M, ML, VB8001,  
VB7007, VB7002, VB7001



### Power Cable

- Compatible model:  
EPIA NX, NR



### VGA Cable

- Compatible model:  
EPIA P710, NX



### USB Cable

- Compatible model:  
EPIA N700, NX, NR



### USB Cable

- Compatible model:  
EPIA N700, NX, NR



### PS2 Cable

- Compatible model:  
EPIA-P710, NX



### SATA Cable

- Compatible model: P700,  
N700, M700, VB8001, VB7002



### Two-port USB 2.0 and two- port 1394 Combo Cable

- Compatible model: EPIA M



### Driver Utility CD