

拡張インターフェース(CON8)マルチプレクス表

| リセット前後の信号状態 |                           |                |                         | マルチプロセス制御 (LMX 7Dualの番号で表記) |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
|-------------|---------------------------|----------------|-------------------------|-----------------------------|-------------------|-----------------|-----|----------|-----|-----|---------------------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-----|-----|------|-----|-----|
| 信号名         | LMX 7Dual<br>ピン           | 電圧グループ         | 機能                      | In/Out                      | Pull-Up/Pull-Down | GPIO            | SD2 | Ethernet | LCD | CSI | UART <sup>[a]</sup> |       |       | SPI   |       |       | I2C  |      |      | CAN  |      | Audio |     | PWM | SIM2 | KPP | etc |
|             |                           |                |                         |                             |                   |                 |     |          |     |     | UART1               | UART2 | UART4 | CSPi2 | CSPi3 | CSPi4 | I2C1 | I2C2 | I2C3 | CAN1 | CAN2 | SA1   | SA2 |     |      |     |     |
| 1           | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 2           | MIPI_DSI_D0_P             | MIPI_DSI_D0_P  | -                       | MIPI_DSI                    | Out               | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 3           | MIPI_DSI_D0_N             | MIPI_DSI_D0_N  | -                       | MIPI_DSI                    | Out               | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 4           | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 5           | MIPI_DSI_CLK_P            | MIPI_DSI_CLK_P | -                       | MIPI_DSI                    | Out               | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 6           | MIPI_DSI_CLK_N            | MIPI_DSI_CLK_N | -                       | MIPI_DSI                    | Out               | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 7           | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 8           | MIPI_DSI_D1_P             | MIPI_DSI_D1_P  | -                       | MIPI_DSI                    | Out               | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 9           | MIPI_DSI_D1_N             | MIPI_DSI_D1_N  | -                       | MIPI_DSI                    | Out               | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 10          | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 11          | MIPI_CSI_D0_P             | MIPI_CSI_D0_P  | -                       | MIPI_CSI                    | In                | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 12          | MIPI_CSI_D0_N             | MIPI_CSI_D0_N  | -                       | MIPI_CSI                    | In                | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 13          | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 14          | MIPI_CSI_CLK_P            | MIPI_CSI_CLK_P | -                       | MIPI_CSI                    | In                | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 15          | MIPI_CSI_CLK_N            | MIPI_CSI_CLK_N | -                       | MIPI_CSI                    | In                | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 16          | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 17          | MIPI_CSI_D1_P             | MIPI_CSI_D1_P  | -                       | MIPI_CSI                    | In                | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 18          | MIPI_CSI_D1_N             | MIPI_CSI_D1_N  | -                       | MIPI_CSI                    | In                | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 19          | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 20          | GPIO4_I08                 | I2C1_SCL       | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 21          | GPIO4_I09                 | I2C1_SDA       | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 22          | GPIO4_I010                | I2C2_SCL       | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 23          | GPIO4_I011                | I2C2_SDA       | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 24          | GPIO7_I00                 | ENET1_RD0      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 25          | GPIO7_I01                 | ENET1_RD1      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 26          | GPIO7_I02                 | ENET1_RD2      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 27          | GPIO7_I03                 | ENET1_RD3      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 28          | GPIO7_I04                 | ENET1_RX_CTL   | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 29          | GPIO7_I05                 | ENET1_RXC      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 30          | GPIO7_I06                 | ENET1_TD0      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 31          | GPIO7_I07                 | ENET1_TD1      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 32          | GPIO7_I08                 | ENET1_TD2      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 33          | GPIO7_I09                 | ENET1_TD3      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 34          | GPIO7_I010                | ENET1_TX_CTL   | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 35          | GPIO7_I011                | ENET1_TXC      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 36          | GPIO7_I012                | ENET1_TX_CLK   | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 37          | GPIO7_I013                | ENET1_RX_CLK   | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 38          | GPIO7_I014                | ENET1_CRS      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 39          | GPIO7_I015                | ENET1_COL      | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 40          | GPIO1_I01                 | GPIO1_I001     | VCC_3.3V                | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 41          | EXT RESET <sup>[b]</sup>  | VDD_VSNVS      | -                       | In                          | 47kΩ Pull-Up(固定)  |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 42          | PMIC_ONOFF <sup>[c]</sup> | VCC_BMIC       | -                       | In                          | 47kΩ Pull-Up(固定)  |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 43          | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 44          | USB_HUB3_DP               | -              | -                       | USB                         | -                 | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 45          | USB_HUB3_DM               | -              | -                       | USB                         | -                 | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 46          | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 47          | USB2_DP                   | USB_OTG2_DP    | -                       | USB                         | -                 | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 48          | USB2_DM                   | USB_OTG2_DM    | -                       | USB                         | -                 | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 49          | GND                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 50          | USB2_VBUS_IN              | USB_OTG2_VBUS  | -                       | USB                         | In                | -               |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 51          | VIN                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 52          | VIN                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 53          | VIN                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 54          | VIN                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 55          | VIN                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 56          | VIN                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 57          | VIN                       |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 58          | VCC_3.3V                  |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 59          | VCC_3.3V                  |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 60          | VCC_3.3V                  |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 61          | NVCC_SD2                  |                |                         |                             |                   |                 |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 62          | GPIO5_I017                | SD2_DATA3      | NVCC_SD2 <sup>[d]</sup> | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 63          | GPIO5_I016                | SD2_DATA2      | NVCC_SD2 <sup>[d]</sup> | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 64          | GPIO5_I015                | SD2_DATA1      | NVCC_SD2 <sup>[d]</sup> | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 65          | GPIO5_I014                | SD2_DATA0      | NVCC_SD2 <sup>[d]</sup> | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |
| 66          | GPIO5_I013                | SD2_CMD        | NVCC_SD2 <sup>[d]</sup> | GPIO                        | In                | 100kΩ Pull-Down |     |          |     |     |                     |       |       |       |       |       |      |      |      |      |      |       |     |     |      |     |     |