PGA2040 ADC VREF RP2040 MCU Header connector MCU1 J1 RP2040 VBUS PGA2040 IOVDD&VREG: 1.8-3.3V USB&ADC: 3.3V Vbus: 3.0V - 5.5V DVDD: 1.1V GP0 **VBUS** GPI00 GP1 ADC IOVDD GPI01 GPI00 3 V 3 1*6 GP1 GP2 GPI01 IOVDD GPIO2 GP2 GP3 GP3 USB IOVDD GPI02 GPIO3 GP4 GPIO3 3V3 GPIO4 GP4 GP5 VREG IOVDD GPIO4 GPI05 45 GP5 GP6 VREG VOUT GPI05 GPIO6 GP6 GP7 DVDD GPIO6 GPI07 GP7 ADC VREF B4 GPI07 ADC VREF GP8 GPI08 GP9 XIN GPIO8 GPIO9 XTAL OUT 21 12 GP9 GP10 XOUT GPIO9 GPIO10 13 GP10 НЗ GP11 GPIO10 3V3 EN GPIO11 14 GP11 GP12 GPIO11 GPIO12 GP13 RUN GPIO12 GPIO13 16 GP13 GP14 GPIO13 GPIO14 RUN 17 GP14 A4 GP15 GPIO14 RUN GPIO15 **SWDIO** 18 GP15 SWDIO GPIO15 GP16 SWCLK **SWCLK** GPIO16 27 GP16 28 GP17 GP17 GPIO16 GPIO17 GP18 SWDIO GPIO17 SWDIO GPIO18 OSPL SD0 29 GP18 SWCLK В5 GP19 GPIO18 GPIO19 OSPI SD0 SWCLK OSPL SD1 55 30 GP19 BOOTSEL GP20 QSPI SD1 GPIO19 BOOTSEL GPIO20 ÔSPI SD2 31 GP20 GP21 OSPI SD2 GPIO20 GPIO21 32 GP21 GP22 GPIO22 QSPI SD3 GPIO21 34 GP22 GP23 OSPI SCLK GPIO22 GPIO23 35 GP23 USB DP **QSPI CS** GPIO23 USB DP USB_DM USB DM GPIO24 36 GP24 GP25 GPIO24 GPIO25 USB DP 37 GP25 GP26 GPIO25 USB DP GPIO26/ADC0 38 GP26 GP27 27R4 USB_DM GPIO26/ADC0 GPIO27/ADC1 39 GP27 GP28 R2 GPIO27/ADC1 GPIO28/ADC2 USB DM 40 GP28 В8 GP29 GPIO28/ADC2 GND GPIO29/ADC3 41 GP29 TESTEN GPIO29/ADC3 PAD GND LDO Crystal oscillator Flash memory (8MB) VBUS 3 V 3 10pF U2 XTAL IN -11 OSPI SD1 U1 C24 IO1/MISO 3 V 3 QSPI_SD0 IO0/MOSI OŠPI SCLK 100k SCK OSPI CS Decoupled with C6 VOUT BOOTSEL 3V3 EN ΕN CS OSPI SD3 103/HOLD OSPI SD2 GND IO2/WP XTAL OUT LDO_NCP115AMX3B0TCG W25Q64JVXGIQ PRODUCT DATE GENERATED SHEET pga2040 04/06/2021 09:46 1/1