

# DFR0827 PiTray mini for Raspberry Pi Compute Module 4

## Product Overview

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For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

DFRobot DFR0827 PiTray Mini is a model B like carrier board for building clusters with Raspberry Pi Compute Module 4 (CM4). This PiTray mini acts as a good starter kit for CM4. The PiTray mini does not include DSI, CSI sockets, an audio jack, and dual micro HDMI or USB 3.0 to fit the Compute Module 4 on a business card size carrier. This PiTray mini provides one USB 2.0, full-size HDMI, and HAT connectors that come natively from the chip.



The PiTray mini offers boot switching for normal and programming modes and can fit in most of the same cases as the Raspberry Pi IO board. This PiTray mini features 5V input power and is available in 85mm x 56mm dimensions.

## Features

- Affordable option
- Energy-efficient
- Compatible with all Compute Module 4
- Offers boot switching for normal and programming modes
- Can fit in most of the same cases as the Raspberry Pi IO board
- RoHS compliance (issued by SGS)

## Specifications

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| <ul style="list-style-type: none"><li>• 1x CM4 socket</li><li>• 1x set of standard Raspberry Pi HAT connectors</li><li>• 1x standard HDMI 2.0 connector</li><li>• 1x Gigabit Ethernet RJ45 socket</li><li>• 1x native USB 2.0 connector</li><li>• 1x SD card socket for CM4 variants without eMMC</li><li>• 1x USB Type-C connector for powering and also programming eMMC variants of CM4</li></ul> | <ul style="list-style-type: none"><li>• 1x boot mode switch for programming mode and normal mode</li><li>• 1x RUN button for easy reset</li><li>• 1x red power LED</li><li>• 1x green activity LED</li><li>• 2x mounting holes for CM4</li><li>• 4x CM4 corner marks for CM4 position guidance</li><li>• 5V input power</li><li>• 85mm x 56mm dimensions</li></ul> |
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## HAT Connectors



Technical drawing of the PCB layout for the Raspberry Pi 4 Model B, showing dimensions and component locations. The drawing includes the following dimensions and labels:

- Overall Dimensions:**
  - Top: 49
  - Right: 56
  - Bottom: 58
  - Left: 58
- Component Locations and Dimensions:**
  - USB-OTG:** 12,17
  - BOOT OFF:** 3,5
  - ON:** 3,5
  - USB-A:** 18,08
  - HDMI\_0:** 18,19
  - LAN:** 9,96
  - SD Card:** 20,44
  - MicroSD:** 19,33
  - GPIO Header:** 29
  - GPIO Pins:** 3,5
  - GPIO Pin Labels:** 30 3V3, 31 GND, 32 5V, 33 GND, 34 5V, 35 GND, 36 5V, 37 GND, 38 5V, 39 GND, 40 5V, 41 GND, 42 5V, 43 GND, 44 5V, 45 GND, 46 5V, 47 GND, 48 5V, 49 GND, 50 5V, 51 GND, 52 5V, 53 GND, 54 5V, 55 GND, 56 5V, 57 GND, 58 5V, 59 GND, 60 5V, 61 GND, 62 5V, 63 GND, 64 5V, 65 GND, 66 5V, 67 GND, 68 5V, 69 GND, 70 5V, 71 GND, 72 5V, 73 GND, 74 5V, 75 GND, 76 5V, 77 GND, 78 5V, 79 GND, 80 5V, 81 GND, 82 5V, 83 GND, 84 5V, 85 GND, 86 5V, 87 GND, 88 5V, 89 GND, 90 5V, 91 GND, 92 5V, 93 GND, 94 5V, 95 GND, 96 5V, 97 GND, 98 5V, 99 GND, 100 5V, 101 GND, 102 5V, 103 GND, 104 5V, 105 GND, 106 5V, 107 GND, 108 5V, 109 GND, 110 5V, 111 GND, 112 5V, 113 GND, 114 5V, 115 GND, 116 5V, 117 GND, 118 5V, 119 GND, 120 5V, 121 GND, 122 5V, 123 GND, 124 5V, 125 GND, 126 5V, 127 GND, 128 5V, 129 GND, 130 5V, 131 GND, 132 5V, 133 GND, 134 5V, 135 GND, 136 5V, 137 GND, 138 5V, 139 GND, 140 5V, 141 GND, 142 5V, 143 GND, 144 5V, 145 GND, 146 5V, 147 GND, 148 5V, 149 GND, 150 5V, 151 GND, 152 5V, 153 GND, 154 5V, 155 GND, 156 5V, 157 GND, 158 5V, 159 GND, 160 5V, 161 GND, 162 5V, 163 GND, 164 5V, 165 GND, 166 5V, 167 GND, 168 5V, 169 GND, 170 5V, 171 GND, 172 5V, 173 GND, 174 5V, 175 GND, 176 5V, 177 GND, 178 5V, 179 GND, 180 5V, 181 GND, 182 5V, 183 GND, 184 5V, 185 GND, 186 5V, 187 GND, 188 5V, 189 GND, 190 5V, 191 GND, 192 5V, 193 GND, 194 5V, 195 GND, 196 5V, 197 GND, 198 5V, 199 GND, 200 5V, 201 GND, 202 5V, 203 GND, 204 5V, 205 GND, 206 5V, 207 GND, 208 5V, 209 GND, 210 5V, 211 GND, 212 5V, 213 GND, 214 5V, 215 GND, 216 5V, 217 GND, 218 5V, 219 GND, 220 5V, 221 GND, 222 5V, 223 GND, 224 5V, 225 GND, 226 5V, 227 GND, 228 5V, 229 GND, 230 5V, 231 GND, 232 5V, 233 GND, 234 5V, 235 GND, 236 5V, 237 GND, 238 5V, 239 GND, 240 5V, 241 GND, 242 5V, 243 GND, 244 5V, 245 GND, 246 5V, 247 GND, 248 5V, 249 GND, 250 5V, 251 GND, 252 5V, 253 GND, 254 5V, 255 GND, 256 5V, 257 GND, 258 5V, 259 GND, 260 5V, 261 GND, 262 5V, 263 GND, 264 5V, 265 GND, 266 5V, 267 GND, 268 5V, 269 GND, 270 5V, 271 GND, 272 5V, 273 GND, 274 5V, 275 GND, 276 5V, 277 GND, 278 5V, 279 GND, 280 5V, 281 GND, 282 5V, 283 GND, 284 5V, 285 GND, 286 5V, 287 GND, 288 5V, 289 GND, 290 5V, 291 GND, 292 5V, 293 GND, 294 5V, 295 GND, 296 5V, 297 GND, 298 5V, 299 GND, 300 5V, 301 GND, 302 5V, 303 GND, 304 5V, 305 GND, 306 5V, 307 GND, 308 5V, 309 GND, 310 5V, 311 GND, 312 5V, 313 GND, 314 5V, 315 GND, 316 5V, 317 GND, 318 5V, 319 GND, 320 5V, 321 GND, 322 5V, 323 GND, 324 5V, 325 GND, 326 5V, 327 GND, 328 5V, 329 GND, 330 5V, 331 GND, 332 5V, 333 GND, 334 5V, 335 GND, 336 5V, 337 GND, 338 5V, 339 GND, 340 5V, 341 GND, 342 5V, 343 GND, 344 5V, 345 GND, 346 5V, 347 GND, 348 5V, 349 GND, 350 5V, 351 GND, 352 5V, 353 GND, 354 5V, 355 GND, 356 5V, 357 GND, 358 5V, 359 GND, 360 5V, 361 GND, 362 5V, 363 GND, 364 5V, 365 GND, 366 5V, 367 GND, 368 5V, 369 GND, 370 5V, 371 GND, 372 5V, 373 GND, 374 5V, 375 GND, 376 5V, 377 GND, 378 5V, 379 GND, 380 5V, 381 GND, 382 5V, 383 GND, 384 5V, 385 GND, 386 5V, 387 GND, 388 5V, 389 GND, 390 5V, 391 GND, 392 5V, 393 GND, 394 5V, 395 GND, 396 5V, 397 GND, 398 5V, 399 GND, 400 5V, 401 GND, 402 5V, 403 GND, 404 5V, 405 GND, 406 5V, 407 GND, 408 5V, 409 GND, 410 5V, 411 GND, 412 5V, 413 GND, 414 5V, 415 GND, 416 5V, 417 GND, 418 5V, 419 GND, 420 5V, 421 GND, 422 5V, 423 GND, 424 5V, 425 GND, 426 5V, 427 GND, 428 5V, 429 GND, 430 5V, 431 GND, 432 5V, 433 GND, 434 5V, 435 GND, 436 5V, 437 GND, 438 5V, 439 GND, 440 5V, 441 GND, 442 5V, 443 GND, 444 5V, 445 GND, 446 5V, 447 GND, 448 5V, 449 GND, 450 5V, 451 GND, 452 5V, 453 GND, 454 5V, 455 GND, 456 5V, 457 GND, 458 5V, 459 GND, 460 5V, 461 GND, 462 5V, 463 GND, 464 5V, 465 GND, 466 5V, 467 GND, 468 5V, 469 GND, 470 5V, 471 GND, 472 5V, 473 GND, 474 5V, 475 GND, 476 5V, 477 GND, 478 5V, 479 GND, 480 5V, 481 GND, 482 5V, 483 GND, 484 5V, 485 GND, 486 5V, 487 GND, 488 5V, 489 GND, 490 5V, 491 GND, 492 5V, 493 GND, 494 5V, 495 GND, 496 5V, 497 GND, 498 5V, 499 GND, 500 5V, 501 GND, 502 5V, 503 GND, 504 5V, 505 GND, 506 5V, 507 GND, 508 5V, 509 GND, 510 5V, 511 GND, 512 5V, 513 GND, 514 5V, 515 GND, 516 5V, 517 GND, 518 5V, 519 GND, 520 5V, 521 GND, 522 5V, 523 GND, 524 5V, 525 GND, 526 5V, 527 GND, 528 5V, 529 GND, 530 5V, 531 GND, 532 5V, 533 GND, 534 5V, 535 GND, 536 5V, 537 GND, 538 5V, 539 GND, 540

## Mouser Part Number

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