

## GRL-14A



| Specification  |                                                                                    |
|----------------|------------------------------------------------------------------------------------|
| CPU            | Intel Alder Lake i5-1235U/i7-1255U                                                 |
| Graphics       | Intel® Iris® Xe Graphics eligible                                                  |
| OS             | Windows 11 Pro 64bit no key                                                        |
| LCD            | 14" 16:9 1920(H)×1080(V) FHD,1000cd/m²                                             |
| RAM            | 2 x DDR5 SO-DIMM, up to 64GB                                                       |
| Storage        | 1 x M.2 2280 M-KEY, support NVMe SSD<br>Additional 1 x M.2 M-KEY via expansion bay |
| Wi-Fi          | WiFi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax                                       |
| 5G and LTE     | Optional                                                                           |
| Camera         | 5.0MP                                                                              |
| BT             | BT5.1 (BLE)                                                                        |
| Battery        | Main battery: 4700mah/11.4V (53.58WH)<br>Bridge battery: 1300mah/11.1V (14.4WH)    |
| Speaker        | Built-in 4Ω/3W x2                                                                  |
| GNSS           | U-blox NEO-7,support: GPS or GLONASS                                               |
| Fingerprint    | x1 SPI fingerprint(power on login)                                                 |
| TPM            | Built-in TPM2.0 SLB9670VQ2.0                                                       |
| I/O connectors | USB3.2 x1, USB3.0 x1, USB2.0 x1, Thunderbolt 4 x1                                  |
|                | φ 3.5mm earphone jack x1                                                           |
|                | HDMI x1                                                                            |
|                | TF card slot x1                                                                    |
|                | SIM card slot x1                                                                   |
|                | DC 19V 3.78A jack x1                                                               |
|                | DB9 (RS232) x1                                                                     |
|                | (10/100/1000Mbps) RJ45 LAN x2                                                      |
|                | 12PIN Pogo PIN x1 (USB signal for customization)                                   |

|                                                    |                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Expansion bay</b>                               | 1 x M.2 2280 M-KEY<br>1 x M.2 E-KEY                                                                                                                                                                                                                                                                                      |
| <b>Default accessories: Power adatper, AC cord</b> |                                                                                                                                                                                                                                                                                                                          |
| <b>Optional parts</b>                              |                                                                                                                                                                                                                                                                                                                          |
| <b>TP</b>                                          | Capacitive touch screen (by project)                                                                                                                                                                                                                                                                                     |
| <b>AR FILM</b>                                     | Anti reflection film (by project)                                                                                                                                                                                                                                                                                        |
| <b>OS Key</b>                                      | Windows 11 Home                                                                                                                                                                                                                                                                                                          |
|                                                    | Windows 11 Pro                                                                                                                                                                                                                                                                                                           |
|                                                    | Windows 11 IOT Enterprise (i5)                                                                                                                                                                                                                                                                                           |
|                                                    | Windows 11 IOT Enterprise (i7)                                                                                                                                                                                                                                                                                           |
| <b>SSD Upgrade</b>                                 | 256G to 512G                                                                                                                                                                                                                                                                                                             |
|                                                    | 256G to 1T                                                                                                                                                                                                                                                                                                               |
| <b>4G LTE module</b>                               | LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B40 WCDMA: B1/5/8<br>GSM: 900/1800                                                                                                                                                                                                                                                       |
| <b>5G module</b>                                   | 5G NR: n1/n2/n3/n5/n7/n8/n12/n20/<br>n25/n28/n38/n40/n41/n48*/<br>n66/n71/n77/n78/n79<br>LTE-FDD: B1/B2/B3/B4/B5/B7/B8/<br>B12(B17)/B13/B14/B18/B19/<br>B20/B25/B26/B28/B29/B30/<br>B32/B66/B71<br>LTE-TDD: B34/B38/B39/B40/B41/B42/<br>B43/B48<br>LAA: B46 (only support 2 x 2 MIMO)<br>WCDMA: B1/B2/B3/B4/B5/B6/B8/B19 |
| <b>NFC</b>                                         | NXP300                                                                                                                                                                                                                                                                                                                   |
| <b>Optional Accessory</b>                          |                                                                                                                                                                                                                                                                                                                          |
| <b>Additional Adaptor</b>                          | 100~240V input 19V 3.78A/71.82W output                                                                                                                                                                                                                                                                                   |
| <b>Additional Battery</b>                          | 4700mah/11.4V (53.58WH)                                                                                                                                                                                                                                                                                                  |
| <b>4-bay battery charger</b>                       | MDC14                                                                                                                                                                                                                                                                                                                    |