

# KST

KS Technologies, LLC

LoRa  
Alliance  
Member

# Affinity Concentrator for LoRaWAN Gateways KST7030 Rev A

The KST7030 Affinity Concentrator Card is based on Semtech's SX1303 LoRaWAN Concentrator chipset. The Mini-PCIe form factor maximizes compatibility with various gateways, enabling the user to add LoRaWAN capabilities.



To learn more about the KST Affinity and other KST products, we can be reached at [info@kstechnologies.com](mailto:info@kstechnologies.com)

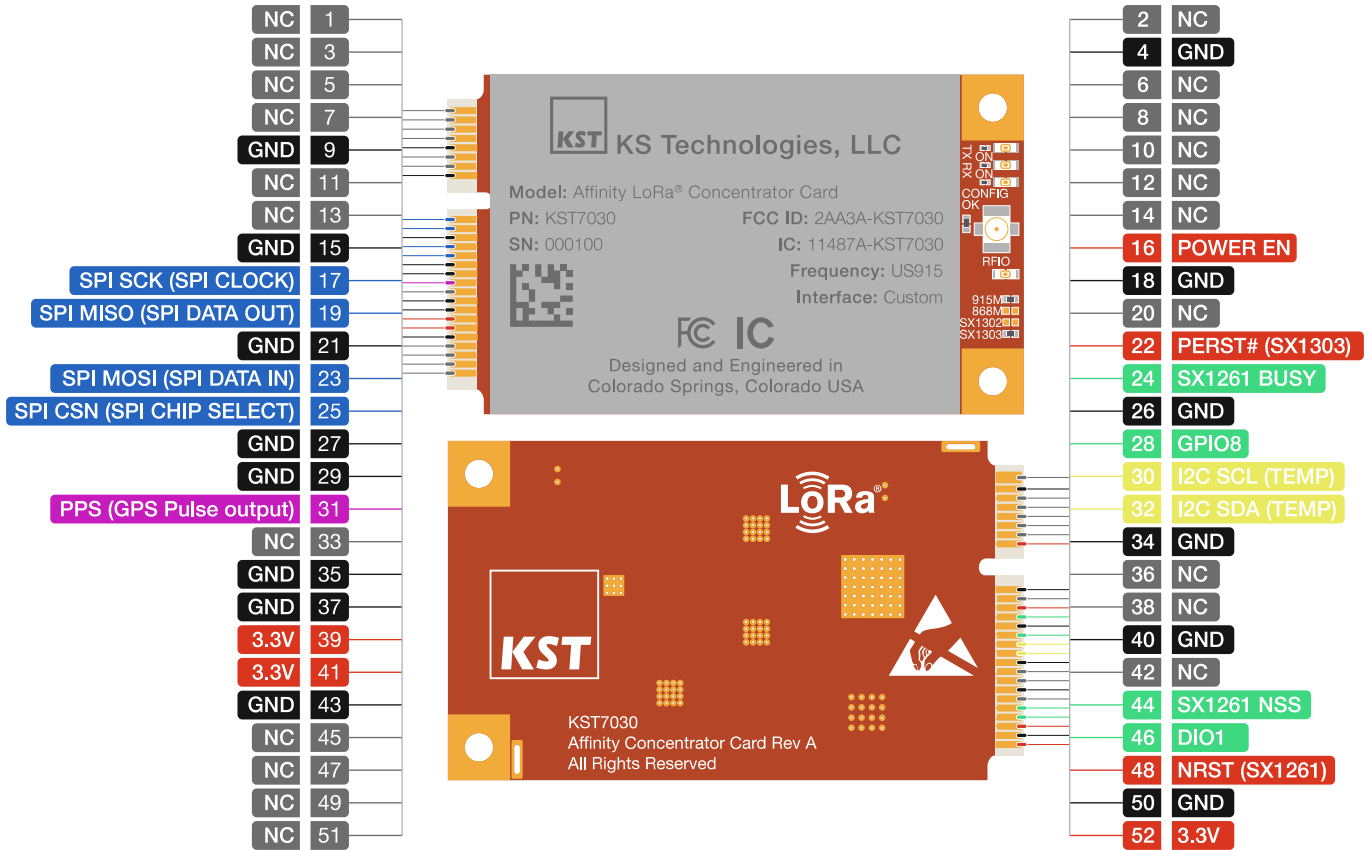
## Features

- Multi-Data Rates - SF5 ~ SF12 / 125 simultaneously kHz
- 2 Mono-Data Rates - 250/500kHz and FSK 50kbps
- Fine Timestamp for Geolocation
- +27dBm Tx Output Power
- 868MHz or 915MHz Frequency Support
- Rx Sensitivity performance:
  - -140dBm at SF12 BW 125kHz
  - -125dBm at SF7 BW 125kHz
  - -110dBm at FSK 50kbps
- FCC / IC Pre-certified
- Designed and Engineered in Colorado Springs, Colorado USA

# Affinity Concentrator

for LoRaWAN Gateways | KST7030 Rev A

## Pinout



## RF Shield Markings



KS Technologies, LLC

Model: Affinity LoRa® Concentrator Card

PN: KST7030

FCC ID: 2AA3A-KST7030

SN: 000100

IC: 11487A-KST7030



Frequency: US915

Interface: Custom



Designed and Engineered in  
Colorado Springs, Colorado USA

## FCC Authorization

This device complies with FCC Part 15 and Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme à FCC Partie15 d'Industrie Canada RSS standard exempts de licence (s). Son utilisation est soumise à Les deux conditions suivantes: (1) cet appareil ne peut pas provoquer d'interférences et (2) cet appareil doit accepter Toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

## IC Authorization

This device complies with Health Canada's Safety Code. The installer of this device should ensure that RF radiation is not emitted in excess of the Health Canada's requirement. Information can be obtained at [http://www.hc-sc.gc.ca/ewh-sem/pubs/radiation/radio\\_guide-lignes\\_direct-eng.php](http://www.hc-sc.gc.ca/ewh-sem/pubs/radiation/radio_guide-lignes_direct-eng.php)

Cet appareil est conforme avec Santé Canada Code de sécurité 6. Le programme d'installation de cet appareil doit s'assurer que les rayonnements RF n'est pas émis au-delà de l'exigence de Santé Canada. Les informations peuvent être obtenues:  
[http://www.hc-sc.gc.ca/ewhsemt/pubs/radiation/radio\\_guide-lignes\\_direct-eng.php](http://www.hc-sc.gc.ca/ewhsemt/pubs/radiation/radio_guide-lignes_direct-eng.php)

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

KS Technologies offers engineering services to help you solve whatever remote sensing problem you might be facing. Contact us today to learn more about how we can integrate your sensor solution with the Cloud.



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